

Plowman et al.
9295-9881

RECORD

019

JANUARY							FEBRUARY							MARCH											
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JULY							AUGUST							SEPTEMBER											
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TIMOTHY PLOWMAN
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Santos.

BRAZIL: ESTADO MARANHÃO.

Município de Imperatriz.

15 km South of Imperatriz along
Belém-Brasília highway. (BR 010)

Paraná. Alt. 290 m.

29 Feb 1982. Soil rusty red, sandy,
deep. Approx. 5°40'S, 47°23'W.

9295. Chamaecrista nictitans (L.) Moench.
var. ramosa (Vog.) Irw. & Barn. Legum.

(14) Erect subshrub in cerrado

Savanna. Flowers yellow.

9296. Arrabidaea brachypoda (DC.) Bur. Bignon.

(14) Erect shrub to 2 m. tall
in Cerrado Savanna. Corolla
deep pink, white in throat.
Fruit brownish green.

9297. Zornia Legum - Papil.

(7) Erect herb in cerrado
Savanna. Petals yellow, banner
with dark red stripes.

9298. Aeschynomene paniculata Willd. ex Vog. Legum - Papil.

(12) Erect herb. Petals yellow
banner with dark red stripes.
In cerrado Savanna.

det. V. Rudd 1981.

FEB 29 1980

9299. Cuphea

- (7) Erect herb in cerrado
savanna. Petals reddish violet.
In deep sandy soil. Lythr.

9300 DIDODIA TERES WALT.

Rubiac

- (7) erect annual herb in
cerrado savanna in deep
sandy soil. Corolla pale
lilac.

DET. J. KIRKBRIDE 1981

9301. Acanthospermum ^{australe (Loefl.) O. Kuntze} Compos.

- (3) Herb in cerrado savanna
on deep sandy soil. det. J. Knight 1981.

9302. Chamaecrista diphylla (Linn.) Greene Legum

- (6) Erect annual in cerrado
savanna on deep sandy soil.
det. Barneby Schult. + Schult.

9303. Richardia grandiflora (Cham. + Schecht.) Rydb.

- (11) Herb with decumbent stems
in cerrado savanna on deep
sandy soil. Corolla tube white,
lobes lilac.

det. B. Boom 1981.

9304. Sida viarum St. Hil. Malvac.
 (2) Erect annual herb. Petals
 white apically, dark red basally.
 Anthers dark yellow. In
 cerrado savanna. det. P. Fryxell 1982.

9305 Cipura poludosa Aubl. Iridac.
 (1) Bulbiferous herb. Perianth
 blue, petals white at tip
 and with yellow markings.

9306 Cipura flava Rev. Iridac.
 (6) Perianth yellow, petals
 with dark velvety brown spot
 at tip. In cerrado savanna.
 det. P. Ravenno 1981.

9307. Apocyn.
 (1) Erect subshrub with
 clear sap. Fruit green. In
 cerrado savanna.

9308. Helicteres Sterculiac.
 (5) Shrub to 2 m. Flowers
 bright red. In cerrado
 savanna.

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~~746~~

9309. Cissampelos tropaeolifolia DC. Menisp.

(3) Twining vine in tree
Island in cerrado savanna.
Bracts pale yellowish green.
Young fruit reddish, older
fruit green. det. R. Barneby 1981.

9310.

Apocyn.

(1) Twining vine in low
secondary forest margin
along road. Leaves dark shiny
green above, dull pale
green with reddish nerves.
Corolla tube pale green toward
base, apical part yellow,
reddish dorsally; lobes and
throat yellow. White latex.

9311.

Apoc.

(5) Twining vine in low
secondary forest along road.
Basal part of corolla tube
pale reddish green, apical
part pale green. Lobes yellow,
throat dark red.

9312. Axonopus ^{DEDECCA} COMPLANATUS (NEES) Gram.
(4) Roadside in low secondary forest. Annual with strongly decumbent culms.
(DET. G. DAVIDSE, 1980)

9313. Rhychospora nervosa Boeck. Cyperac.
(3) Spikelets pale brown, basal half of bracts white.
F NY Roadside in low secondary forest.

C. DUARTEANA CAMB. [J.A. LOMBARDI 1993]

9314. Cissus rhombifolia Vahl Vitac
(9) In shrub island in cerrado savanna. Climbing vine to 1 m. Stem dark brownish red. Flowers creamy yellow, fruit green. det. R. Liesner 1986.

9315. Cordia superba Cham. Boragin.
(6) Shrub 1 m. tall on road-bank in secondary forest. Corolla pure white. Fruit white.
det. J. Kallunki 1984.

9316. Cephaelis Rubiac.
(7) Shrub 1 m. in tree island in cerrado savanna. Bracts dark purple.

FEB 29 1980

9317. Matayba Sapindac.
(5) Tree 3 m. tall in tree island in cerrado. Fruits green with dark purple blush.
9318. Tocoyena sp. aff. T. formosa (C. & S.) Schum. Rubiac.
(2) Erect shrub 1 m. tall in cerrado savanna. Fruit green. det. K.
9319. Bauhinia Legum.
(3) Shrub 70 cm. tall in cerrado savanna. Petals and stamens white.
9320. Galactia jussieana Kunth. Legum. - Papil.
(7) Petals pale blue-violet. Erect subshrub in cerrado savanna. det. R. Barn.
9321. Chamaecrista calycioides (DC.) Greene Legum.
(11) Prostrate herb in cerrado savanna. Flowers. det. R. Barn.
9322. Helicteres Sterculiac.
(6) Shrub 2.5 m in tree island in cerrado savanna.

Perianth pure white.

9323. Euphorb?

(1) Perianth greenish brown.
Anthers yellow. In cerrado
savanna.

9324. Chamaecrista supplex (Benth.) Irw. + Barn. Legum.

(12) Prostrate annual. Corolla
yellow. In cerrado savanna.
det. B.

9325. Mabea paniculata Benth. Euphorb

(11) Shrub 2.5 m. tall with
white latex in tree island
in cerrado savanna. Fruit
green with reddish blush.
det. M. J. Huft 1984.

9326. Serjania ovalifolia Radlk. Sapindac.

(6) Climbing vine 1.5 m. tall
in tree island in cerrado
savanna. Fruit light green
with reddish wings. det. P. Acevedo 1985.

9327. Casarea arborea (L. C. Rich.) Urb. Flacourtiac.

(13) Treelet 2.5 m. tall in margin
of secondary forest along
road. Flowers white. det. Steiner 1981.

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9328, Maprounea Euphorbiac.
(8) Tree 7 m. tall in tree island
in cerrado savanna. Fruit
green.

9329. Byrsonima coccolobifolia HBK. Malpighiac.
(3) Petals at first white, turn-
ing pink in age especially the
claw. Stamens yellow.
Tree 4 m. tall in shrub
island in cerrado savanna.
det. W.R. Anderson 1981.

9330. Ouatea Ochnac.
(3) Shrublet 60 cm. tall in
Cerrado savanna. Fruits dark red

9331. Rutac.
(3) Shrub 2 m. tall in secondary
forest along road. Fruits green

9332. Clitoria
(1) Keel and lateral petals
white. Banner white at
base, upper part lilac.
Nectar guide with 2 dark
violet lines with greenish
yellow between

9333 Eriosema cf. Stipulare Benth. Legum.-Papil.
(2) Erect subshrub in cerrado
savanna. Fruits black.
det. R. Bar

9334 Cordia polycepala (Lam.) I. M. Johnston. Boragin.
(12) Corolla tube pale yellowish
green, lobes reddish. Mature
fruit red. Shrub 1.5 m. tall
in tree island in cerrado.
det. J. Kallunki 1984.

9335 Machaerium acutifolium Vag. Legum.
(11) Tree 5 m. tall x 10 cm. diam
wood in tree island in cerrado
savanna. Fruits pale greenish
yellow. det. V. Rudd 1981.

9336 Faramea MULTIFLORA A.C. RICH. EX DC. Rubiac.
(8) Treelet 3 m tall in secondary
forest along road. Rachis and
pedicel blue. Corolla blue.
Fruit green. DET. J. KIRKBRIDE 1981

9337 Mimosa pigra L. Legum.
(11) Many stemmed subshrub to
1 m. in cerrado savanna.
Filaments dark pink.
Anthers yellow. det. R. Bar.

FEB 29: 1980

det. Figueiras 1987

Mesosetum loliiforme (Hochst.) Chase

- 9338 Mesosetum altum Swallen (Gram.)
(6) In open areas in cerrado
savanna. Stoloniferous.
det. Davidse 1981.

9339. Bulbostylis junciformis Liebm. Cyperac.
(4) Erect perennial in
F cerrado savanna. Spikelets
NY brown. det. T. Koyama 1981

- 9340 Aquifolium?
(6) Shrub 1m. tall on flooded
river bank. Flowers
white. Fruit green

9341. Centropogon Campanul.
(2) Subshrub 1 m. tall in open
flooded stream bank.
Sap white. Corolla pink.

9342. Trachypogon SPICATUS (L.f.) Gram.
(11) Erect perennial in
KUNTZE
cerrado savanna. Glabrous
and pubescent plants inter-
mixed. DET. T. FIGUEIRAS, 1990

9343. Axonopus CANESCENS (NEES) PILGER Gram.
(10) In cerrado savanna. Culms
weak, falling over. Perennial

9344. Aristida longifolia TRIN. Gram.
(10) In shade of tree island.
in cerrado savanna. (DET. G. DAVIDSE, 1980)

9345. Axonopus DERBEYANUS BLACK Gram.
(3) Edge of tree island.
Cerrado savanna. Erect
perennial. (DET. G. DAVIDSE, 1980)

9346. Cymbopogon GIGANTEUS CHIOY. Gram.
(10) In cerrado savanna. (DET. G. DAVIDSE, 1980)

9347. Erythroxylum subracemosum Turcz. Erythrox.
(15) Shrub 2m. tall in margin of
tree island in cerrado savanna.
Leaves shiny, medium green above,
pale glaucous dull green
beneath. Immature fruits
light green.

Det. T. Plowman

FEB 29 1980

Erythrox

9348 Erythroxylum sp.

(12) Shrub 1.5 m. tall in shade

NY of tree island in cerrado

LUS. F savanna. Twigs dark brown

Cher. K Leaves medium green above

20-21 US dull, pale dull glaucous

fotos MO green beneath. Buds yellow.

GH Det. T. Plowman

Turcz.

9349. Erythroxylum subracemosum Erythrox

(3) Shrub 1 m. tall in shade
of tree island. Leaves dark green
above, pale glaucous green
beneath. Fruits light green

Det. T. Plowman

Acanthac.

9350. Ruellia

(2) Tall spindly herb 2 m.
tall in low open swamp.
Corolla tube white, lobes
violet.

Myrtac.

9351. Psidium

(2) Subshrub 40 m. tall in
cerrado savanna. Fruits
green.

9352 Psychotria mapouruioides DC. Rubiac.

(7) Treelet 5 m. tall in open swamp along stream. Fruits green to orange. det. J. H. Kirkbride 1981.

9353. Xyris jupicai L. C. Rich. Xyridac.

(11) Herb with equitant leaves in open swamp along stream. Petals yellow. det. R. Kral 1982.

9354. Urospatha sagittifolia (Rödsch) Schott Araceae

(16) Herb in open swamp along stream. Petiole green, mottled snake-like pattern towards base in some plants. Spathe brownish green on abaxial surface, greenish white within on adaxial surface. Spadix purplish brown; brown in fruit.

det. T. Croat
1981.

Inflorescence erect at anthesis; nodding in fruit.

9355. Diospyros Ebenac.

(11) In tree island in savanna

WOOD cerrado. Treelet 3 m. tall.

Fruit green.

FEB 29 1980

9356. Zornia Legum-Papil.
(9) Petals yellow, banner
with dark red stripes.
Erect herb in cerrado
savanna.

9357. Stylosanthes capitata Vog. Legum-Papil.
(11) Subshrub in cerrado
savanna. Flowers yellow.
det. L.-t' Hanneetje 1982.

9358. PORTULACA MUCRONATA LINK Portulac.
(8) ^{DET. J. KALLUNKI, 1990} Succulent erect herb
in cerrado savanna. Fruit
green. Flowers light yellow.

P. STEUS (L.) KUIJT COMB. INED. (KUIJT 1994)
9359. Phthirusa retroflexa (R. + P.) Kuijt Loranth.
(11) Fruit green to yellowish
to reddish. Hemiparasite
on Helicteres (#9322) in
tree island in cerrado
savanna. det. J. Kuijt 1981.

9360. Clitoria cf. arborea Benth. Legum.
(10) Subscandent shrub in
tree island in cerrado
savanna. Fruit green.
det. R. Barneby.

FEB 29 1980

9361. Bauhinia rufa (Bong.) Steud. Legum.
(11) Shrub 2 m. tall in
cerrado savanna. Fruit green.
det. J. Grimes 1981.

9362. Byrsonima Malpigh.
(1) Shrub 3.5 m. tall in
tree island in cerrado.
Petals yellow. Anthers white.

9363. Stryphnodendron Legum.
(1) Shrub 1.5 m. in savanna.
Glyx and petals pale green.
Filaments and anthers violet.

9364. Eriosema rufum (HBK.) Gr. Don Legum-Bapil.
(11) In savanna cerrado. Sub-
shrub to 1 m. tall. Flowers
yellow. Underground part
a xylopodium.

9365. Erythroxylum leptoneurum O.E. Schulz
(21) Det. T. Plowman Erythrox.
Shrub 1.5 m. tall on shady
roadbank in secondary forest.
Leaves medium green above,
dull with depressed nerves;
paler green, shiny beneath.

FR → A
Seed → A1
F
GH
K

FEB 29 1980

Immature fruit white,
ripe fruit bright red, shiny

9366 Erythroxylum suberosum St. Hil.
Det. T. Plowman

(11)

Lvs-chem
anal.

FR → (A)

foto

Seeds

WOOD: MADw

Shrub in cerrado savanna
with several branches
arising from base. Bark
light tan, longitudinally
cracked. Twigs smooth,
reddish to greyish tan.
Leaves shiny medium to dark
green above, with yellow
midrib. Fruits yellowish,
orange at tip, turning
shiny bright red at
maturity. Foliage with
resiny odor.

(Aubl.) Standl. det. R.
Faden 1981.

9367. Dichorisandra hexandra Commelinac.

(12)

us

Scandent branching vine
in tree island in cerrado
savanna. Calyx light green,
violet towards tip. Upper
2 petals deep blue through-

FEB 29 1980

Out, lower petal deep blue
with central white stripe and
base. Fruits deep red purple,
shiny.

9368. Dorstenia cf. pernambucana Arruda de Câmara
(3) Rhizomatous herb in cerrado
savanna. Receptacle purplish
brown. det. J. P. P. Graetz 1983.

- 9369 Holostylis reniformis Duchartre Aristoloch
(13) Suberect herb to 50 cm.
tall in cerrado savanna. Corolla
flos. pale brown without with red-
brown veins; strongly wrinkled
within, coppery reddish brown,
dark brown at margin. Fruits
brownish green. det. K. Barringer 1985.

9370. Arachis burchellii Krap. + Greg. ^{ined.} Legum-Papil.
(7) Prostrate herb with tuberous
CTES NY roots in cerrado savanna.
Flowers erect, yellow.
det. A. Krapovickes 1981.

9371. Polygala monticola HOK. ^{brizoides} (St. Hil. + Moq.) Steyerl. ^{Var.} Polygalac
(3) Erect herb in cerrado savanna.
Wings and keel pale red-violet

FEB 29 1980

9372. Manihot Euphorb.
(11) Shrub 2.5-3 m. tall
with white latex. In margin
of gallery forest in cerrado
savanna. Corolla pale
green. Filaments white.
Perianth yellow.

9374. Acanth.
(2) Subshrub to 80 cm.
tall in margin of secondary
forest. Lower bracts green,
upper bracts carmine
red; corolla tube pink,
lobes red.

9375. Polygala LONGICAULIS H.B.K. Polygalac.
(11) Annual herb in cerrado
savanna. Flowers light
red violet. (DET. J.J. WORDACK, 1981)

9376. Chamaecrista kunthiana (Schl. & Cham.) Legum.
(12) Cassia Irw. + Barneby.
Prostrate herb in cerrado
savanna. Flowers yellow.
det. R. Barneby.

FEB 29 1980

9377. Annona Annonac.

- (1) Subshrub 1 m tall in cerrado savanna. Sepals dull green without, creamy white within. Petals creamy white.

9378. Cissampelos ovalifolia DC. Menisperm.

- (2) Shrub 1.5 m tall in cerrado savanna. Bracts green det. R. Barneby 1981.

9379. Manihot Euphorb.

- (1) Shrub 2 m. tall in shrub island in savanna cerrado. Latex white. Fruit glaucous green. Perianth dark purple at base, lobes greenish yellow.

Collectors: T. Bowman, G. Davidse,
N.A. Rosa, C.S. Rosario and M.R. dos Santos

MAR 1 1980

BRAZIL, Estado Pará. Muni-
cipio de Paragominas, Along
Belém-Brasília Highway (60
km marker 1509, 17 km 1514)

[Serraria Imapril.]

1 MAR 1980. Logged primary
forest near highway.
Ca. $4^{\circ}17'S$, $47^{\circ}32'W$. Elev. ca.
250m.

9380.

Sapot.

(12)

Tree 25 m. tall. x 40

wood

cm diam. Latex white.

seed

Fruit globose, 2.2 cm diam.

orange.

Seed light brown

9381.

Rutac.

(11)

Slender understory
tree 6 m. tall. Fruit
green.

9382. Helosis cyrenensis (Sw.) Spr. Balanoph.

(3)

Peduncle deep pink.

2 specimen Inflorescence pale salmon
pink det. B. Hansen 1982.

9383. Protium SAGOTIANUM Marchand Burserac.

(11)

Tree 15 m. tall x 20 cm
diam. Fruit yellowish red

foto

to dark red, Aril white,
Seed dark brown. DET. D. DALY 1990

9384. Solanum Solanac.

(2) Shrub 2 m. tall in open
secondary thicket along road.
Corolla white.

9385. Solanum Solanac.

(5) Prickly Shrub 3 m. tall
in open secondary thicket
along road. Indument golden.
Petals greenish white.
Anthers yellow. Fruit green.

(1) 9385A. Solanum shrub. SOLANAC.

9386. Miconia nervosa (SMITH) ^{TRIANA} Melast.

(11) Shrub 1 m tall in secondary
thicket along logging road.
Stem, petioles and leaf under-
sides red purple. Rachis,
pedicels and axillary leaf
hervex carmine red. Leaf
dark shiny green above.
Petals and stamens white.
Young fruit Salmon pink.
(DET.)

MAR 1 1980

9387. Adiantum ADIANTOIDES (J. Sm.) C. Chr. ^{FERN}
(14) Terrestrial fern in

Shady of forest. Leaflets
and petiole very brittle
DET. MICKEL & ATE HORTUA 1981

9388. Calathea (Ornata group) Marant
(4) Herb to 80 cm tall in
3 species forest. Bracts light tan,
lustrous. Capsules orange.
Flowers pale yellow-bronze.

9389. Blicourea sp. aff. Pijurana Krauss ^{Rubiac}
(16) Shrub 2.5 m. tall in
secondary forest margin.
Upper stems and peduncle
purple. Inflorescence
axis carmine red. Pedicels
yellow. Fruit green.

9390. Paullinia aff. fimbriata Radlk. Sapind.
(9) High climbing liana in
forest. Fruits tawny yellow.
det. P. Acevedo 1985.

9391. Arrabidaea ornithophila A. Gentry Bignon.
(6) Erect shrub 1.5 m. tall in
open forest margin. Calyx
fotos deep red. Corolla deep red,
white at very base det. A. Gentry
1981.

9392. Ischnosiphon Marant.

- (1) Erect herb 1 m. tall in forest.
Bracts greenish brown, pruinose at base. Fruits light green.
Lvs. grey green to purplish beneath.

9393. Heliconia ^{L.f.} psittacorum ("silvestris morph") Musac.

- (22) Erect herb 1-2 m. tall in forest margin and roadside thickets. Leaves dull medium green above, shiny lighter green beneath with pale green midrib. Peduncle and rachis pale green, pruinose. Bracts pale green at very base, carmine red in upper part, pruinose especially on abaxial surface.
Fl → ①
flos
live: Selby
Lyon
ATF
② → Dura Pedicel greenish yellow. Ovary yellow. Perianth shiny orange, blackish green spot near apex, apex itself white.
det. L. Andersson 1982.

9394. Passiflora Passiflor.

- (3) Vine in thicket along logging road in forest. Fruit ovoid, pale greyish green.

MAR 1 1980

9395. Passiflora GLANDULOSA CAV. Passiflor.
(13) Sprawling vine roadside
thickets and secondary forest. Perianth
pale red without, carmine
red within. * Androgyno-
phore, filaments and styles
deep red. Fruit green.
* corona white. DET. A.C. CERVINI, 1999

9396. Gurania subumbellata (Miq.) Cogn. Cucurbit.
(2) Herbaceous vine in
secondary thicket along
logging road in cut-over
forest. Hypanthium light
green. Stamens yellow.
Petals pale orange.
det. C. Jeffrey 1982.

9397. Spigelia anthelmia L. Loganiac.
(11) Annual herb with
pruinose stems, thick-
ening toward apex.
Flower buds lilac.
det. Leeuwenberg 1981.

9398. Monotigma Marant.
(3) Herb 80 cm tall in
forest. Bracts light brown.

9399. Protium Burserac

(7) Tree 25 m. tall x 50 cm diam. Fruits pale red.

(Kuhlmann) Buchheim

9400 Neoptychocarpus apodanthus Flacourt.

(9) Slender understory tree to 6 m. tall with storied horizontal branches near top of tree. Fruits deep pink. Seeds with white aril.

det TP.

O.E. Schulz

9401. Erythroxylum leptoneurum Erythrox

(11) Treelet 5 m tall x 2 cm diam. with storied horizontal branches. Leaves medium green, rather dull above; shiny paler green beneath; semi-bullate with undulate margin. Det. T. Plowman

Uw, MAD

WOOD

lvs char

foto

9402. Heteropsis oblongifolia Kunth. Arac.

(9) nv. "cipó titica"

Climbing vine on tree trunk with horizontal spreading branches. Sterile

det. T. Croat 1981.

MAR 1 1980

9403. Mendoncia hoffmannsegiana Nees Acanth.
F (8) High climbing vine
in secondary forest. Calyx
yellowish green. Corolla deep
pale red. Fruit immature,
light green. det. D. Wasshausen 1983.

9404. Cephaelis Rubiac.
(8) Shrub 2 m. tall in clear-
ing in forest. Bracts deep
live red-purple. Fruits deep
sky blue.

9405. Sapotac.
(3) Tree 25 m tall x 20 cm
wood diameter. Fruits yellow-
orange, ovoid, 5.0-6.5 cm long.
Latex white.

9406. Sagotia racemosa Baill. Euphorb.
(13) Tree 6 m. x 10 cm diam.
Calyx brownish green. Fruit
green. det. M. J. Huft 1984.

- T. FLAVICANS WILLOD EX ROEM. & SCHULT. Apocyn.
9407. Tabernaemontana attenuata (Miers) Urb.
(11) Tree 12 m. tall x 15
cm diameter. Latex white.
Fruits shiny green. det. Leeuwenberg 1981.

9408. Pariana Gram.
 (3) Herb in forest, to 1 m.
 tall. In clump with 7 culms.

9409. Streptogyna americana C. E. Hubbard
 (16) (DET. G. DAVIDSE, 1980) Gram.
 Common in clearings in
 forest. Growing in clumps.

9410. Ichnanthus panicoides Beauv. (DET. G. DAVIDSE, 1980) Gram.
 (8) Erect perennial in small
 clumps in forest.

9411. Paspalum decumbens Sw. Gram.
 (7) Along road in forest. (DET. G. DAVIDSE, 1980)

9412. Piresia goeldii Swallen Gram.
 (19) In forest. Spikelets reddish
 purple. det. Davidse 1981.

9413. Annonac.
 (12) Slender understory treelet
 to 3 m. tall. Perianth golden
 yellow. Flowers cauliflorous
 for on the branchlets.

9414.

(5)

Tree 4 m. tall in forest understory. Petals dull yellow without with green dots, creamy yellow within. Stamens white. Fruit green. Rutac.

Sprague & Sandw.

9415. Anaxagorea dolichocarpa

Annonac.

(11)

Slender understory tree - let 3-5 m. tall. Outer tepals yellow ochre. Inner tepals dull yellow with silvery indument. Lit. Moas & van Setten 1887: 196

→ u

9416. ANAXAGOREA PRINOIDES (DUN.)

St. Hil.

Annonac.

(15)

Slender understory tree - let 5 m. tall. Fruit green. DET. J. KALLUNKI, 1998

9417. Lycianthes

Solanac.

(9)

Sprawling vine in clearing. Fruit orange at maturity.

9418. Protium

Burserac.

(13)

WOOD

Tree 18-25 m. tall x 20-30 cm diam. Fruits green, aromatic.

9419.

(7)

Sapotac

Tree 30 m. tall x 1.2 m.

Fruits 4 cm. diameter, gb-
base, yellow orange. Latexseed
wood

SEPAR. FR. white.

9420.

(11)

Sapot.

Tree 30 cm tall x 80
cm. diameter. Abundant
white latex. Fruits globose,
5.5 cm. diameter, dull
yellow.seed
wood
SEPAR.
FRUIT

Oxalid.

9421. Oxalis hedysarifolia Raddi

(11)

Frequent weed along lumber
road in forest. Corolla yellow.
det. A. Lounsbury 1981.

9422.

(5)

Sapotac.

Tree 16 m. tall x 20 cm.
diameter. Fruits brown,
collected on forest floor.WOOD
seed
fruit

9423.

(6)

Tiliac.

Herb in cleared field
in forest. Flowers yellow.

MAR 1 1980

9424. Gurania Cucurbit.
(1) Herbaceous vine. Hypan-
thium and petals orange.
Stamens yellow.

9425. PROTIUM SAGOTIANUM MARCHAND Burseria
(10) Tree 20 m. tall x 25 cm.
diameter. Fruits dark
red, purple at maturity.
Resin drops white, aromatic.
Resin

9426. Fusaea longifolia (Aubl.) Seff. Annonac.
(11) Tree 10 m. tall x 15
cm. diameter. Outer
tepals green, Inner tepals
silvery brown. det. Van Rooden 1981
! CHATELON & PINO 1996

9427. Euphorb.
(12) Tree 8 m. tall. Buds
greenish yellow. Fruit
green.

9428. Rinorea guianensis Violac.
(11) Tree 15 m. tall x 20 cm.
diameter. Fruits green.

9429. Pithecelladium mataybifolium ^{Sandw.} Legum.
(12) Tree 8 m. tall x 15 cm
diameter. Fruits shiny green.

(Huber) Duché

9430. Poecilanthus effusus Legum.
(10) Tree 6 m. tall x 15 cm,
diameter. Fruits black.
N.v. "yema de ovo"

9431. Protium Burserac
(9) Tree 8 m. tall. Fruits
red. Aril white. Seed black.

9432. Apocyn.
(1) Tree 6 m. tall in forest
margin. Latex white.

9433 Fungi
(2) growing on fallen log in
secondary forest. Fruiting
bodies dull ashen grey.

MAR 2 1980

SAME LOCALITY. 2 MAR 1980.

9434. VERNONIA CINERA (L.) LESS. Comp.

(11) Weedy herb to 1 m. tall
in waste ground at lumber
mill. Flowers light violet
(DET. W. ROBINSON 1981)

9435. Desmodium barbatum (L.) O. Ktze. Legum.

(6) Sprawling herb branching
at base, in waste ground
det. R. Bern.

9436 Desmodium canum (Gmel.) Sch. ex Thell. Legum.

(3) Erect herb in waste
ground. Flowers pink. det. R. Bern.

9437. Zornia Legum. - Papil.

(2) Sprawling herb with de-
cumbent branches. Flowers
yellow. In waste ground.

9438. Polygala PLANELLASII HOL. & HAZA Polygal.

(8) Erect herb in waste
ground near sawmill.
Flowers cream. (DET. J. J. WURDACK, 1981)

9439. Hyptis suaveolens (L.) Poit. Labiat.
 (10) Aromatic herb to 1.2 m. tall
 in weedy roadside. Corolla lilac.
 det. R. M. Harley 1984.

9440. Passiflora Passiflorac.
 (3) Vine 3 m. long in secondary
 thicket along road. Fruits
 light green.

9441. Ischnosiphon bambusoidea Mart. Marant.
 (1) Scandent sprawling herb in
 secondary forest. Bracts
 greenish to brown.

9442. Solanum Solanac.
 (4) Treelet 4 m. tall in open
 secondary thicket. Flowers
 white. Fruit green.

9443. Solanum
 (7) prickly treelet 3 m. tall in open sec-
 ondary thicket. Pubescent golden
 brown. Corolla white. Anthers
 yellow. Fruit green.

MAR 2 1980

9444. Aegiphila racemosa Vell. Verbenac.
(9) Shrub 3 m. tall in open
secondary thicket along
road. Corolla cream.
det. H.N. Moldenke 1981.
9445. L. PRIEURIANA FÉE (DET. R. MORAN 1996)
LOMARIDOPSIS JAPURIENSIS (HART.) J. SM. Fern
(8) Climbing on slender
stems of shrubs and tree-
lets. In secondary forest
DET. MICKEL & ATEHORTUA 1981
9446. Adiantum cayennense Willd. Fern
(5) Terrestrial fern in
cut over primary forest.
det. Mickel & Atehortua 1981.
9447. Piper Piperac.
(11) Shrub 1 m. tall in primary
forest. Spike erect, green.
9448. Trichomanes pinnatum Hedw. Fern.
(6) Terrestrial fern in
logged primary forest
9449. Trichomanes PINNATUM HEDW. Fern
(7) Terrestrial fern in
logged primary forest.
DET. MICKEL & ATEHORTUA 1981

9450. Sciaphila albescent Benth. Triuridac.

(1) Fragile saprophyte.

(A) → u Whole plant pure white.
flos In logged primary forest in
leaf litter. det. P. J. M. Maas 1981.

var. corymbosa

9451 Voyria corymbosa Splitg. Gentianac.

(2) Delicate saprophyte in

(A) → u leaf litter in logged primary
flos forest. Stems and calyx
F(d) pale salmon. Corolla white.
Anthers yellow. Style white.
det. P. J. M. Maas 1981.

(A) → K

9452. Isertia longifolia (Hoffsgg.) K. Schum. Rubiac.

(11) Weak treelet 6 m. tall in
margin of secondary thicket.
Peduncle pale green. Infl.
axis and branches and calyx
carmine red. Corolla tube
pink, lobes white. Immature
fruits greenish orange.
det. B. Boom 1982.

9453. Eugenia florescens DC. Myrtac.

(11) Tree 5 m. tall x 5 cm. diam.
in logged primary forest. Fruits
light green.
det. R. Liesner 1983.

MAR 2 1980

9454, Pouteria

SAPOTAC

(11) Tree 25 m, tall x 50
cm diameter. Scant white
seed latex. Trunk deeply sul-
cate. Flowers brown.
Fruits yellow. Leaves
dull dark green above,
silvery brown beneath. In
logged primary forest.

9455,

SAPOTAC.

(2) Tree 25 m tall x 80 cm
diameter. Scant white
seed latex. Fruits subglobose
4 cm diameter. In logged
primary forest.

9456,

SAPOTAC.

(4) Tree 18 m, tall x 30
cm tall with white
seed latex. Fruit globose
immature, green. In logged
primary forest.

9457. POUTERIA RETICULATA (ENGEL) EYMA

SAPOTAC.

ssp. SURINAMENSIS PENN.

(13) Tree 20 m, tall x 40 cm
seed. diameter in logged primary
forest. White latex. Fruit
green turning dark purple
at maturity, 1.3-1.5 cm diam.

9458. Lacunaria Quinac.
(5) Tree 5 m. tall x 8 cm.
diameter. Fruit green. In
logged primary forest.

9459. Myristic
(11) Tree 5 m. tall x 5 cm.
wood tall in logged primary forest.
Buds green.

9460. Diospyros duckei Sandw. Ebenac.
(13) Tree 17 m. tall x 25 cm.
wood diameter in logged primary
forest. Fruit green.
det. P. Cavalcante 1985.

9461. ANAXAGOREA PRINOIDES (DUNAL) A. DC. Annonac.
(8) Treelet 5 m tall x 3 cm.
diameter in understory
of logged primary forest.
Fruits green. DET. P. J. H. MAAS, 1988

9462. Mikania PSILOSTACHYA DC. Composit.
(8) Vine in margin of secondary
forest. Flowers white.
(DET. H. ROBINSON, 1981)

9463. Allophylus Sapindac?
(11) Treelet 4 m. tall in second-
ary forest. Fruit green.

MAR 2 1980

9464. Vismia Guttif.
(11) Tree 8 m. tall with open
spreading crown. In margin
of secondary forest along
road. Fruits brownish green.

9465. Paulsandra Euphorb.
(10) Tree 6 m. tall x 10 cm
diameter. Buds green.
In logged primary forest.

9466. Protium trifoliolatum Burserac.
(9) Tree 6 m. tall x 10 cm.
diameter in logged
primary forest. Fruit red,
larid white.

9467. Olyra LATIFOLIA L. Gram.
(6) (DET. G. DAVIDSE, 1980)
Culms to 2 m. Semi-
scandent and sprawling.
In secondary forest.

9468. Panicum pilosum Sw. Gram.
(8) (DET. G. DAVIDSE, 1980)
Along road in cut over forest

9469. Paspalum convexum Humb. + Bonpl. Gram.
(7) Det. Davidse, 1980
Decumbent culms.
Along road in cut over forest

9470 Axonopus COMPRESSUS (Sw.) Beauv. Gram.
(3) (DET. G. DAVIDSE, 1980)
Stoloniferous grass along
road in cutover forest.

9471, AMAIOURA GUIANENSIS AUBL. Rubiac.
(1) Tree 8 m. tall x 10 cm.
diameter in cutover primary
forest. Fruit dark purple.
DET. J. KIRKBRIDE 1981

9472. Bignoniac
(1) Prostrate vine with
orange flowers. Along
roadside.

9473 Trichilia? Meliac?
(1) Tree 6 m. tall x 8 cm Sapind.
diameter in cutover
primary forest. Corolla
creamy white. Anthers
yellow.

9474. Psychotria brachybotrys M. Arg. Rubiac.
(3) Shrub 1 m. tall in primary
forest on steep slope. Buds
green. det. Kirkbride 1981.

MAR 2 1980

det. Hekking 1986.

9475. Rinorea neglecta Sandwith Violac.
(11) Shrub 2 m. tall in primary forest on hillside
Fruit green.

Lecythis idatimon Aublet var. idatimon det. S. Mori 1985

9476. Lecythis idatimon Aubl. Lecythis
(5) Tree 18 m. tall x 35 cm
diameter in primary
wood forest on hillside. Fruit
brown with reddish cast.

det. - G. Davidse 1981.

9477. Pilosium chlorophyllum (Hornach) C.H. Musci
(11) Moss on huge liana
trunk on forest floor.

9478. Glymperes lonchophyllum Schweegr. Musci
(11) Moss on huge liana
trunk on forest floor.
det. Steere

9479. Fissidens gardneri Lesq. & James. Musci
(11) Moss on huge liana trunk
on forest floor. det. W.C. Steere 1981.

9480. Fungi
(2) On rotting twigs in leaf litter
in primary forest. Stipe brown.
Cap white.

9481.

Fungi

(2)

Growing on rotting leaves on primary forest floor. Stipe red brown at base, apically yellow. Gills cream. Pileus tawny yellow.

(Mont.) Kuntze

9482. Cookeina tricholoma Fungi - Discomycetes

(2)

Growing on rotting stems on forest floor. Cup pale pink throughout. Hairs hyaline.

det. Dumont 1981.

9483.

Fungi

(2)

Growing on rotting leaves on primary forest floor. Stipe bronze. Gills cream. Pileus dark red.

9484.

Fungi

(2)

Growing laterally on dead standing tree trunk. Pale yellowish brown above, cream beneath.

9485.

Fungi

(2)

Growing on dead stem in primary forest floor. Whole plant white.

9486. PHELLODON TENUIS BAIRD Fungi
 (2) Growing on mixture of yellow clay soil and organic matter. among buttresses of large forest tree. Stipe and gills cream's white. Pileus pale tawny yellow.
 DET. BAIRD 1989

9487 ^{prob.} Hydrangea sp. Bignon?
 (3) Slender appressed vine on tree trunks in primary forest. Sterile. Juvenile form?
 det. A. Gentry 1981.

MAR 3 1980 Collectors: T. Plowman, G. Davidse,
N.A. Rosa, C. S. Rosario and M.R. dos Santos

BRAZIL: Estado Pará,
Município de Paragominas.
Belém-Brasília Highway
(BR-010), km marker 1532, 6 km
North of Ligação do Pará.
3 Mar 1980, Alt. ca. 250 m.
Ca. 4°05'S, 47°32'W

9488. *Fusaea longifolia* (Aubl.) Seff. Annonac.
(8) Tree 4 m. x cm.
in primary forest. Fruits
1 Sep. Fruit green without, turning
salmon pink within when
cut; seeds brown, endosperm
white turning bluish on ex-
posure.
det. Van Rooden 1981.
! CHATROU PIN 61996

9489. Protium Bursera
(4) Tree 15 m. x 12 cm.
diam. Fruit globose, shiny
red.

9490. Protium Bursera
(4) Tree 10 m. tall x 15 cm.
diameter. Aromatic resin.
Fruit green.

MAR 3 1980

9491. Inga capitata Desv. Legum.
(11) Tree 20 m. tall x 20 cm
diameter in primary for-
est. Fruit brown.
G. P. Lewis 1981.

9492 Gardenize. Rubiac.
(12) Tree 15 m. tall x 25 cm
diameter. Fruit green.

9493. Strychnos Loganiac.
(11) Liana 15 m. tall in
primary forest.
Flower buds white.

9494. Inga Legumin.
(4) Tree 10 m. tall x 15 cm. diam
in primary forest. Fruits

9495. ^{TRIANA} HENRIETTELA FLAVESCENS (AUBL.) Melastom.
(11) Treelet 3 m. x 5 cm. diam
in deep gully in primary forest.
Fruit orange, turning black.
(DET. J. J. WURDACK, 1981)

9496. Duguetia Annonac.
(1) Treelet 2.5 m. in primary
forest. Fruit yellow orange.

MAR 3 1980

9497. Rhabdodendron ^{amazonicum (Gr. & Benth.) Huber.} Rhabdodendr.
(8) Tree 6 m. tall x 15 cm
wood diameter. Young fruits
folios green. In primary forest.
det. G. T. Prance 1981.

9498. Inga thibaudiana DC. Legum.
(8) Tree 4 m. tall in margin
of primary forest along
road. Fruits velvety light
green. Aril edible.
det. G. P. Lewis 1981.

9499. Manihot Euphorbia
(2) Treelet 3 m. tall growing
in forest margin along
road. Fruit green.

9500. Paullinia castaneifolia Radlk. Sapindac.
(12) Liana 2 m. tall in
forest margin along road.
Fruits yellowish to reddish
orange. Aril white.
det. P. Acevedo 1985. SAPOT.

9501.
(11) Tree 25 m. tall x 40 cm
wood diameter in primary forest.
Fruits green turning red.
seed at maturity. Latex white.

MAR 3 1980

9502. *Myrtac.*
(4) Shrub 2.5 m. tall on
slope in primary forest.
Fruit light green.

9503. *Vismia* *Guttif.*
(11) Tree 10 m X 15 cm diam-
eter. Sp. red. Flower
white. Indument rusty
brown.

9504. *Vouria* *Gentianac.*
(1) Stem white, Corolla
white, yellow in throat.

9505. *Calyptrocarya glomerulata* *Urb.* *Cypresc.*
(7) Herb in primary forest.
F Flowers reddish. det. T. Koyama 1981

9506. *Protium* *Burserac.*
(10) Tree 25 m. tall x 80 cm
diameter in primary
forest. Fruit light green.

9507. *Adiantum tetraphyllum* Willd. *Fern.*
(3) det. Mickel & A. Chortova 1986.
Fern on steep bank of
gully in primary forest

- 9508 LEANDRA RUFESCENS (DC.) COGN. Melastom.
(7) (DET. J.J. WURDACK, 1981)
Shrub 2.5 m tall in
clearing in primary forest.
Lvs. dark shiny green above,
light dull green beneath,
with red nerves. Inflores -
once branches dark red
Ovary white, turning green

- 9509, Trichomanes pinnatum Hedw. Fern
(6) Terrestrial fern in
primary forest. det. Mickel & Atehortua 1981.
subsp. longistipulata

- 9510 Palicourea cf. longistipulata (H. Arq.) Standl. Rubiac.
(14) Shrub 2.5 m tall in
margin of primary forest.
Peduncle and rachis bright
yellow in flower turning
red in fruit. Immature fruit
green. det Kirkbride 1981.

- 9511, Trichomanes PINNATUM HEDW. Fern.
(15) Terrestrial fern in primary
forest.
DET. MICKEL & ATEHORTUA 1981

MAR 3 1980

9512. Stenitis protensa (Afz. ex Suss) Ching.
(10) Tactypteris terrestris (10)
Terrestrial fern on
steep banks of gully in
primary forest. det. Mickel &
Acheortua 1981.
9513. LEANDRA MICROPETALA (Naud.) Cogn. Melastom
(11) (DET. J. J. WURDACK 1981)
Shrub 1-1.5 m. tall in forest
margin. Upper stems and
inflorescence branches
dark red. Immature
fruit green.
9514. FARAMEA AFF. CORYMBOSA AUBL. Rubiace.
(9) Treelet 4 m tall x 4 cm
wood diameter in primary
forest. Pedicel pale green.
Fruit pale yellow. DET. J. KIRKBRIDE 1981.
9515. MICONIA GRATISSIMA BENTH. Melastom
(12) (DET. J. J. WURDACK 1981)
Treelet in forest margin
3 m. tall. Sepals pale green,
petals greenish pink,
filaments light red-violet,
det. Hekking 1986.
9516. Rinorea kiana Kuntze Violac.
(11) Treelet 3-4 m tall. Fruits
golden-brown at maturity.

MAR 3 1980

9517. Cassia fastuosa Willd. ex Benth. ^{var. fastuosa} Legumin.
(12) Tree 5 m. tall x 10 cm.
diameter in margin of
forest along road. Fruits
velvety, tawny brown.
det. Barneby 1981.

9518. Annonac.
(11) Tree 5 m. tall x 8 cm.
diameter in forest margin
along road. Fruits pale
glaucous green.

9519. Protium Burserac.
(9) Tree 15 m. tall x 20 cm.
diameter in primary forest.
Aromatic resin. Fruits pale
glaucous green.

9520. Cordia nodosa Boraginac.
(5) Understory tree let 3 m.
tall with domatia. Fruits
yellowish.

9521. Siparuna Monimiac.
(7) Slender understory shrub
2.5 m. tall in primary forest.
Fruit green to red.

MAR 3 1980

Gram.

9522. Streptogynis americana C.E. Hubbard
(19) (DET. G. DAVIDSE, 1980)
Clumped grass in under-
story of primary forest.

9523. Diplasia karataefolia L.C. Rich. Cyperac.
(6) In primary forest.
F det. H. Koyama 1981

9524. Mendoncia Acanthac.
(2) Twining vine in forest
margin. Corolla red.

9525. Amasonia hirta var. parazensis Met. Verbenac.
(7) Along roadside, to 75 cm
tall. Leaves purple beneath.
Bracts red. Corolla yellow.
det. Moldenke 1981.

9526. Smilax
(1) Climbing vine to 4 m.
tall in primary forest
Fruit green.

9527. Lacunaria Quiinac.
(9) Tree 20 m. tall x 30
cm. diameter. Fruit light
brown, ridged. In primary
forest.
Separate fruit

9528. Tontelea nectandraefolia A. C. Smith Hippocrateac.

(7) High climbing liana in separate primary forest. Fruit shiny green, starting to turn yellow. det. A. M. W. Menzies 1981.

9529. Voyria corymbosa Splitg. var. corymbosa Gentianac.

(2) Saprophytic. Stems and calyx salmon orange. Corolla white. In primary forest.

9530. Voyriella parviflora (Miq.) Miq. Gentianac.

(2) Saprophyte. Whole plant pure white. In primary forest floor. det. P. J. M. Maas 1981.

(A) → u
F

9531. Eschweilera amazonica R. Knuth Lecythidac.

(2) Tree 30 m. tall x 80 cm diameter in primary forest. Fruits brown collected on forest floor. Petals yellow.

det. G. Davidse 1961.
! S. Mori 1985

(Kl.) C.

9532. Stigmatopteris guianensis Fern

(4) Eusporangiate fern in primary forest. det. Michel & A. Chortua 1981.

MAR 3 1980

9533. Adiantum cayennense Willd. Fern
(14) Terrestrial fern in
primary forest det. Mickel & A. hortua 1981.

9534. Bactris Palmae
(1) Palm 1.2 m. tall in pri-
mary forest. Fruit greenish
white.

9535. Astrocaryum munbaca Mart. Palmae
(22) Spiny slender understory palm
5 sets to 6 m. tall. trunk 4 m.
tall x 4.5 cm diameter.
1 sep. inf. crown shaft 40 cm long
Petiole 60 cm long. Leaf
blade 2.5 m. long with
30 pairs of leaflets.
Spines black. Fruit orange.
Frequent. det. A. Henderson 1984

9536. Passiflora Passiflora
(1) Climbing vine in road-
side thicket. Fruit ovoid,
6.3 cm long, 4.6 cm in dia-
meter, pale green.

9537. Ischnosiphon GRACILIS (RUBIE) ^{KORN} Marantac.
 (14) scandent rhizomatous herb
 to 4 m. tall with pendulous
 line-like branches. Leaf shiny
 medium green above, dull
 purplish beneath. Bracts
 light green. Corolla tube dull
 reddish, lobes dull yellowish
 red; cucullate and callous sta-
 minodes dull yellow. Petaloid
 staminal lobes, purple,
 caducous after "snap" pol-
 lination. DET. L. ANDERSSON, 1998

9538. Psychotria medusula M. Arg. Rubiac.
 (11) Low shrub 70 cm. tall in
 primary forest understory.
 Leaves shiny dark green
 above, dull pale green
 beneath. Bracts greenish
 white, apical hairs dark purple.
 Fruits green det. Kirkbride 1981.

9539. Calathea altissima (P. & E.) Koern. Marant.
 (4) Herb 70 cm. in primary forest.
 3 specimen leaves shiny dark green above
 ① → K Shiny slightly lighter green

MAR 3 1980

beneath. Bracts tan, mar-
cescent. Flowers very pale
yellow orange throughout.
Fruits orange.

Solanum

9540. Brumfelsia martiana Prunum

(4)

f. b. s

Shrub 2 m. tall growing
in primary forest along deep
gully. Upper stems dark
shiny brown. Leaves coria-
ceous, shiny dark green
above, nerves impressed;
leaves dull, pale green
throughout beneath,
lateral nerves promi-
nulous; new growth
purple.

Only one seen. Sterile.

⑤⑦F

9541. Ischnosiphon

Marant.

(3)

Herb 1 m. tall in primary
forest. Leaves dark green
above with velvety sheen,
red purple to pale green
beneath. Peduncle dark
red purple. Bracts dull
green, pruinose at base.

MAR 3 1980

Flacourt.

9542. Neoptychocarpus apodanthus (Kuhlman) Buchheim

(6) Treelet 1.5-4 m. tall in primary forest understory. Fruits whitish, turning carmine red. det. T. Plowman 1981.

9543.

Rubiace.

(1) Shrub 1.5 m tall in primary forest. Young fruits green.

9544. Mapanea sylvatica Aublet Cyperac.

(6) Herb in primary forest. Spikes reddish brown. Anthers white. det. T. Koyama 1981

F
NY

9545. Passiflora

Passiflorac.

(1) Vine in roadside thicket. Bracts light green with red blush apically. Perianth parts bright red adaxially, corona light magenta, gynophore dark red. Ovary light green, red at tip. Styles red. Stigma cream.

MAR 3 1980

9546.

(1)

Herb in primary forest
Peduncle red.

Cyperac.

9547. Desmanthus

Palmae

(2)

Climbing prickly palm
in primary forest under-
story. To 1.8 m tall. Fruit
green to yellow to red
at maturity.

9548.

(2)

In primary forest in
leaf litter.

Fungus

MAR 6 1980

BRAZIL Estado Pará. Environs of
Belém. EMBRAPA (formerly IAN)
lands. Reserva Mocambo. Estrada
do Cafezal, caminho a Mocambo.
Capoeira. Ca. 1°28' S, 48°22' W.
6 March 1980. Coll. T. Plowman & N. A.
Rosa.

9549. Buforrestia candolleana C. B. Clark det. R. Faden 1981

(4) Erect herb arising from
decumbent stems in wet
area in low forest. Leaves in
young plants variegated, medium
green with a broad ^{silver} lateral
longitudinal stripe on each
side of midrib. ^{Midrib} Leaves somewhat
shiny dark green above, pale
green beneath. Flowers white
throughout at anthesis. Ad-
axil turning reddish in fruit.
Calyx greatly accrescent in
fruit, turning pale green.

9550. Brumfelsia SOLANACEAE

(3) Erect, low shrub 50 cm tall
in secondary forest. Leaves
ascending. Calyx white to whit-
ish green. Corolla tube white,
limb violet fading to pale violet.
Calyx in fruit green, lobes re-
curving. Fruit subglobose, some-
what flattened dorsally, shiny green.

MAR 6 1980

flowers fragrant during
the day.

9551. Monophyllanthus ^{oligophyllus K. Schum.} Marantac.
(2) understory herb in
old secondary forest, Rechin,
FI ^A HK. and bracts white turning
greenish purple with age.
Flowers pure white.

MAR 15 1980

Treated with Alcohol

BRAZIL: Estado Pará, Município de Tucuruí, 25 km. South of Represa Tucuruí on road to Brejo Branco. (BR-422). Alt 90m.

15 MAR 1980. Approx. $3^{\circ}52'S, 49^{\circ}44'W$
Coll. T. Plowman, N.A. Rosa
and C.S. Rosario.

9552. CEPHALOSTEMON GRACILIS (P. & E.) Rostk. Schomb.

(8) Herb in marshy area in white sand campina. Calyx scarious, yellowish brown. Corolla yellow.

(DET. B. MAGUIRE, 1981)

9553. Erythroxylum tucuruense Plowman Erythroxyl.

Det. T. Plowman 1984

(3) Shrub 1 m. tall in understory of forest on sandy soil. Leaves medium shiny green above, pale dull glaucous green beneath. Sterile.

9553A. Philodendron distantilobum Krause Arac.

live only
SEL
80-585

Epiphyte or small tree in open clearing. Sterile. (= Plowman 14097)

MAR 1 5 1980

9554. *Erythroxylum citrifolium* St. Hil. ^{Erythrox}
(12) Det. T. Plowman sens. lat.

Slender virgate shrub
4 m. tall x 3 cm diameter
in low forest on white sand.
(campinarana). Bark smooth
light brown, thin. Leaves
dark shiny green above,
light green shiny beneath.
Fruits light green, turning
red.

foto
Chem
WOOD
MADW.
Uw

9555. *Heteropsis oblongifolia* Kunth Arac.

(13) Climbing vine 8 m tall on
tree trunk in low forest on
white sand. (campinarana)
Branches spreading, hori-
zontal. Ripe inflorescences
orange. Det. T. Croat 1982.

foto

9556. *Tabernaemontana* ^{MART. EX MUELL. ARG.} ANGULATA Apoc.

(11) Scandent or climbing
shrub 5 m. tall in margin
of low forest in white sand
campina. Latex white.
Corolla tube pink at base,
white apically; lobes white.

fotos.

ascending. Fragrant with
odor of hyacinth.

9557. Schizaea pinnula Sw. Schizaeac.
(10) Terrestrial fern in margin
fotos of low forest in white sand
(campina rana), det. Michel & Atehortua 1981.

9558. Sauragesia SPRENGELII ST. HIL. ~~Schnac~~
(10) Compact herb in marshy
area in open white sand
"campina". Upper stems and
leaves reddish. Calyx green.
Corolla pale pink to magenta.
DET. C. SASTRE 1987

9559. PAEPALANTHUS BIFIDUS (SCHRAD.) KUNTH Eriocaulac.
(11) Herb in open white sand
"campina". Inflorescence white
fotos growing with 9560. (Eriocaul.)
(DET. H. MOLDENKE, 1981)

9560. PAEPALANTHUS SUBTILIS VAR. PUBERULUS RUEL. Eriocaulac.
(11) Herb in open white sand
"campina". Inflorescence white.
growing with 9559 (Eriocaul.)
(DET. H. MOLDENKE, 1981)

MAR 15 1980

9561. Polypodium (Microgramma) ciliatum Willd. Fern
(7) Creeping fern on tree
trunks in low forest on white
sand (campina rana).
det. Michel + Atehortua 1981.

9562. Amazonia lasiocaulos Mart. + Scheu Verbenac.
(3) Unbranched subshrub
to 1 m tall in low forest
on white sand (campina rana).
Bracts red. Corolla pale
yellow. Leaves purplish
beneath. det. Moldenke 1981.

9563. Elaphoglossum Fern
(2) Epiphyte on tree trunk.
In forest under story on
sandy soil.

9564. Anthurium ^{benlandii Bunting var. benlandii det. Croat 1986} jensenii Arac.
(3) Terrestrial rosulate
herb in low forest on white
sand (campina rana). Pedun-
cle green. Spathe pale greenish
brown, spreading. Spadix
deep red-purple. Anthers
yellow.
det. T. Croat 1984.

SEL 88-583.

me: SELBY
MO

9565. Ischnosiphon OBLIQUUS (RUGE) ^{KORN} Merntec.

- (7) Arborescent herb 4-5 m. tall in lowlying forest with sandy soil. Leaves dark shiny green above, paler dull green beneath. Pulvinus dark brown. Bracts green. Corolla tube white, lobes coppery red. Staminodes light yellow.
DET. L. ANDERSSON 1998

9566. Ischnosiphon Arac.

- (1) Erect herb in forest understory. Leaves shiny green above, pale green beneath with purple bluish. Bracts light green. Corolla purplish brown. Staminodes yellowish.

9567. Calathea Merntec.

- (1) Frequent herb in forest understory. Bracts marcescent pale brown. Ripe capsule orange.

9568. Monstagma PLURISPICATUM (KOERNICKE) SCHUMANN PLURISPICATUM VAR. Merntec.

- (10) Herb in forest understory in sandy soil. Leaves blackish

MAR 15 1980

Shiny green above; shiny
dark green beneath.
Infl.ovic green, Bracts
light brown. DET. H. KENNEDY 1992

9569. Selaginella calcarata A.Br. Selaginella
(11) Herb in small clearing
in forest on sandy soil.
det. Michel + Atehortua 1986

9570. Piper arboreum Aublet var. arboreum?, perac.
(10) Shrub 1.5 m tall with
long horizontal branches
in forest on sandy soil.
Spikes cream. det. R. Callejas 1981.

9571. Vitex Verbenac.
(1) Slender virgate shrub 2.5 m
tall in low forest on white
sand (campinarana).
Immature fruit green.

9572. Fern
(1) Fern growing on fallen
log in forest on sandy soil.

MAR 15 1980

9573. Trithyothere terminalis Composit.
(11) Shrub 1.2 m tall in low
moist area in open white
sand campina. Stems reddish,
succulent. Foliage aromatic.
Flowers white.

9574. Mapourea Rubiac.
(5) Shrub 3 m. tall in low
forest on white sand (campina
rana). Leaves shiny on
both sides. Fruit green.

9575. Exochogyne amazonica C.B. Clarke Cyperac.
(7) Clumped herb in low
marshy area in open white
sand campina. det. T. Koyama 1981
F
NY

9576. Xyris lacerata Pohl Xyridac.
(10) Herb growing in clumps
in low marshy area in
white sand campina. Buds
light brown. Leaves strongly
spiraled.
det. R. Kröhl 1982.

MAR 15 1980

9577. Desmoncus - Palmae
(1) Armed climber in margin
of low forest on white sand
(campinarena). Fruits
bright red.

9578. Kyllinga peruviana Poir. Cyperac.
(10) Frequent herb in low
F marshy area in open white
sandy campina. Spikes
whitish, det. T. Koyama 1981

9579. Erythroxylum ligustrinum DC. Erythrox.
(12) Shrub 1.8 m. tall with
horizontal storied branches
growing in understory of
forest on sandy soil.
Branches dark brown. Leaves
medium green above, pale
glaucous green beneath,
dull on both sides, thin
membranaceous.
Sterile.

Det. T. Plowman

MAR 15 1980

9580. Beckarelia cymosa Cyperac
(7) n.v. "cario"

F Herb forming large clumps
on low hummocks in flooded
varzea forest under palms.
Fruits dark brown.

9581. Borreria sp. aff. B. verticillata (L.) Rubiac.
(7) G.F.W. Meyer.
Spindly fragile herbs to 1.5
m. tall in open white sand
campina. Corolla white.
det. Kirkbride 1981.

9582. VERNONIA ARENARIA MART. Compositae
(11) Suffrutescent to 2 m tall in
open white sand "campina".
Cyto. Florets lavender blue.
(DET. H. ROBINSON, 1981)

9583. Utricularia subulata L. Lentibulariaceae
p (9) Delicate herb in marshy
foto area in white sand campina.
Stems and inflorescence dark
red. Corolla bright yellow,
deep yellow spot at throat.
det. P. Taylor 1981.

MAR 15 1980

9584.

(11)

Prostria rosea in marshy
area in white sand "campina". Eriocaul.

9585

(6)

Eleocharis nigrescens (Nees) Steud. Cyperac.
growing in marshy area
in open white sand "campina".
Spikes whitish, det. G. Davidse 1987.

9586.

(6)

Geonoma Palmar
Slender palm 3-4 m tall
in flooded varzea forest
under palms. Inflorescence
branches pale orange. Fruits
black at maturity.

9587.

(10)

Psychotria hoffmannseggiana (Willd. ex R. & S.) M. Arg. Rubiac.
Shrub 1.5 m. tall in
low forest on white sand
(campina terra). Inflorescence
branches and bracts red
purple. Fruits green.

MAR 15 1980

9588. Protium Burserac.
(3) Shrub 1.5 m. tall in open
white sand "Campina". Fruits
red.

9589. Theobroma grandiflorum Sterculac.
(6) Tree 16 m. x 1 m. in
circumference, in forest on
Sandy soil. Infected with
"vassoura de bruxa".
Fruit cauliflorous on larger
branches, dark brown,
23 cm long x 9 cm diam.
Pulp white.

Wood
Fruits
separate

9590. Macarobium f. M. angustifolium (Benth.) Cowen
legum.
(11) Shrub 70 cm tall in open
white sand "Campina". Leaves
shiny both sides. Infl. axis
green, buds purplish brown.

9591. Hirtella racemosa Lam. (Benth.) Cowen
var. hexandra (Willd. ex R. & S.)
Chrysobal.
(6) Shrub 70 cm tall in open
white sand "Campina". Calyx
red purple. Petals whitish.
Filaments magenta.

det. G.T. Prance 1981.

MAR 15 1980

9592, Polypodium PERCUSSUM Cav. Polypodiaceae
(10) Creeping epiphyte on
branch of tree in under-
story of forest on sandy
soil. DET. MICKEL & ATEHORTUA 1981

9593. Aeschynomene histrix var. densiflora (Benth.) Legum.
(10) Shrub branching from
base to 70 cm. tall in open
white sand "campina".
Petals yellow. det. V. Rudd 1981.

9594. Orchidaceae
(1) Erect herb in open white
sand "campina". Fruit green

9595. Rutac.
(2) Shrub 2.5 m. tall in
low forest on sandy soil
near white sandy "campina".

9596. Psychotria subq. Heteropsychotria Sect. Chytropsia Rubiaceae
(11) Shrub 50 cm. tall in
understory of low forest on
sandy soil. Fruits deep
red at maturity, det. Kirkbride 1981.

9597. Xylopia aromatica (Lam.) Ma Annonac.
 (10) Shrub 1.5 m. tall in open white sand "campina". Sepals brownish green. Outer petals deep red without, white within. Inner petals pure white, with bright red spot at base, det. van Rosden 1981.

9598. ANNONA TENUPIES R.E. FRIES Annonac.
 (11) Tree 20 m. tall x 60 cm diameter in low lying forest on sandy soil. Fruit pale glaucous green, pulp yellow orange, leaves dark shiny green above, dull pale glaucous green beneath.
 wood DET. J. M. S. MIRANLA, 1995

9599. Trichilia micrantha Benth. Meliac.
 (11) Shrub 3 m. tall in low forest on white sand (campina-rana). Flowers buds yellow-green.
 det. T. D. Pennington 1982.

MAR 15 1980

9600. Ludwigia hyssopifolia (Gr. Don) Exell Onagraceae
(11) Herb. to 1 m. In marshy area
in white sand 'campina'.
Petals yellow. det. P. H. Raven 1981.

9601. Turnera melochioides Camb. Turneraceae
(10) Shrub 50 cm. tall in
open white sand 'campina'.
Flowers deep yellow. det. M. M. Arbo 1981.

9602. Ipomoea batatoides Choisy Convolvulaceae
(12) Vine 1.5 m. tall among
F Shrub in forest clearing.
Corolla rose-pink.
det. D. F. Austin 1981

9603. Pagamea GUIANENSIS AUBL. VAR. GUIANENSIS RUB.
(12) Shrub 3 m. tall in low
forest on white sand
(campina rara). Corolla
white. Fruits immature,
green. DET. J. KIRKBRIDE 1981

9604. Humiria balsamifera (Aubl.) St. Hil. Humiriaceae
(11) Shrub to small tree to
wood 5 m. tall in low forest on
Hw, MADw, Uw white sand (campina rara)
(A → K) frequent. Petals white.
folbs

Immature fruit green.

9605. BREDEMEYERA MYRTIFOLIA BENN. Polygalac.
(10) Climbing liana in
low forest on white sand
(campina rana). Buds
cream. (DET. J. J. WORDACK, 1981)

9606. OCOTEA CAMPHORAMOEBA ROHWER Laurac.
(11) Shrub 2 m. tall in low forest
on white sand (campina rana).
Receptacle red. Fruit black
DET. J. ROHWER 1986

9607. Trachypogon SPICATUS (L.f.) KUNTZE Gram.
(11) Dominant grass in open white
cyto. sand "campina". Foliage green
flos or glaucous in same popula-
tion. DET. T. FILGUEIRAS, 1998

9608. Gurania eriantha (P. & E.) Cogn. Cucurbit.
(1) Vine in forest margin in
Sandy soil. Flowers orange.
det. C. Jeffrey 1982.

9609. Chamaecrista flexuosa (Linn.) Greene Legum.
(5) Shrub 1 m. tall in margin
of white sandy campina
flowers orange.

MAR 15 1980

9610. Convolvul
(11) Vine 4 m. tall in
forest margin along white
sand 'campina'. Corolla tube
pale pink without, deep rose within.
Limb pale pink.

9611. Zornia Legum-Br
(11) Herb along old railroad
bed in white sand campina.
Flowers yellow.

9612. Cissus Vitac.
(8) Vine 3 m. tall in low
forest on white sand
(campina-ramp). Stems
and petioles dark red.
Immature fruit green.

9613. Dichorisandra sp. Commelinac.
(11) Climber in secondary
growth in cleared area in
forest. Petals deep blue,
inner petal with central
white stripe. Fruits
globose, shiny green, purple
black apically.
us — Nerrou W. f? (= Coelho de Moraes 954(us)
det. R. Faden 1981.

Cyrt
(A)

MAR 15 1980

9614. CYBIANTHUS BROWNII GLEASON ^{VEL SP. AFF.} Myrsinac.
(3) Treelet 4.5 m tall in forest understory on sandy soil. Fruits yellow-orange.
(DET. J. J. PIPOLY, 1981)

9615. Turnera melochioides Camb. Turnerac.
(12) Shrub 1.0 m tall in margin of low forest on white sand (campina raya). Flowers deep yellow. det. A.M. Arbo 1981.

9616. Emmotum acuminatum (Benth.) Miess. Icacinac.
(11) Treelet 3 m tall in low forest on white sand. Fruits immature, green. Leaves dark shiny green above, dull glaucous green beneath. det. R.A. Howard 1984.

9617. Dichorisandra hexandra (Aubl.) ^{Stem. sens. lat.} Commelinac.
(11) Climber in margin of low forest on white sand (campina raya) to 2 m. tall. Petals deep blue, lower one with central white stripe, and/or white at base (variable).

us

MAR 15 1980

9618. Lagenocarpus VERTICILLATUS (SPR.) KOYAMA Cyperac
(12) " growing in white sand
campina near margin of
low forest. (DET. G. DAVIDSE, 1980)
F
MO

9619. Paspalum arenarium Schrad. Gram.
(11) Growing in small open
field in low forest on white
sands. Stems decumbent
at base. det. Davidse 1981.

9620. Polygala SPECTABILIS DC. Polygal.
(10) Subshrub 70 cm tall
in margin of low forest on
white sand (campina-rara).
Lateral petals white with
pink blue. Lip deep pink.
(DET. J. J. WURDACK, 1981)

9621. Psychotria kappleri (Miq.) M. Arg. Rubiac.
(11) Shrub 1.2 m tall in low
forest on white sand
(campina-rara). Corolla white.
det. Kirkbride 1981.

9622. Hepaticae
(11) on tree branch in forest.

9623. Potamium pacimoniense Mitt. Musci
(11) Moss on fallen log in flooded area for
det. W. C. Steere 1981.

MAR 15 1980

9624

(11)

Lichen

Terrestrial lichen on white sand in small open area in low forest (camp area).

SAME LOCALITY.

Mar 16, 1980

MAR 16 1980

9625. Ichthyothere terminalis DC. Composit

(12)

cyto.

CHEM. →

Tol Steussy
OSU

Subshrub 1 m. tall with dark red-purple, succulent stems growing in margin of low forest on sandy soil.

var. ligustrinum

9626

(16)

Erythroxylum ligustrinum DC.

Det. T. Plowman

Erythrox.

Tree 10 m. tall in understory of forest on sandy soil. Trunk 10 cm diameter. Bark dark brown, somewhat fissured in age.

fol.

(A) → F

WOOD.

MADw

Uw Lw

Aw

Kw

Twigs light tan to reddish brown. Leaves dull medium green above, midrib yellow-green; leaves dull pale glaucous green beneath.

9626A → F

Eloria larva

9626B → birch caterpillar

F

Branches storied, horizontal, flattened into one plane.

MAR 1 6 1980

- 9627 PREPALANTHUS POLYTRICHOIDES BENTH. Eriocaulac.
(10) Herb forming small dense
mats on surface of white
sand bank. Heads white.
(DET. H. MOLDENKE, 1981)

9628. Costus lanceolatus O.G. Peters. Zingiberac.
(14) Herb to 60 cm tall in
open cleared area in forest on
white sand. Bracts green.
Calyx green. Corolla orange.
Labellum bright red. det. Maas 1981.

- 9629 MYRCIARIA TENELLA (DC.) BERG Myrtac.
(14) Tree 7 m. tall x 8 cm.
diameter with mottled peeling
bark. Flowers pure white.
(DET. L. LANDRUM 1981 & M. SOBRAL 1990)

9630. Bacopa SALZMANII (BENTH.) Cruciferae.
(10) Herb growing in drainage
ditch along road in white
sand "campina". Corolla pale
blue-violet. DET. KARL A. VINCENT 1989

MAR 16 1980

9631

Fungi

- (2) Bract fungus at base of slender living treelet (Erythroxylum sp., # 9645). Upper surface dark brown. Lower surface mustard yellow.

9632. PORTULACA MUCRONATA LINK Portulacaceae

- (7) Erect succulent near leafless herb along road in white sand "campina". Flowers deep yellow, open in the early morning.
DET. J. KALLUNKI, 1998

9633. Bauhinia longicuspis Spr. ex Benth. Legum.

- (7) Shrub 2 m. tall in forest margin on white sand. Fruit green.
det. J. Grimes 1981.

9634. Croton lobatus L. Euphorbiac.

- (11) Roadside in white sand "campina". Herb to 1 m. tall. Flowers cream. Immature fruits shiny green.
det. M. J. Huft 1984.

MAR 16 1980

9635. Stylosanthes Legumin.
(3) Roadside weed in white sand
'campina'. Flowers yellow.

9636. ^{ssp. RUBRIFLORA BITTRICH (INES)}
CLUSIA WEDDELLIANA Pl. & Tr. ^{Multiflora}
(11) Tree 10 m tall x 15 cm
diameter. Latex yellowish.
Fruit green. Growing in
understory of forest on white
sandy soil. DET. V. BITTRICH, 1999 (NY)

9637. Macrolobium ^{var. campestre} campestre Huber Legum.
(11) Tree 12 m tall x 50 cm
diameter in margin of lumber
road in forest on white sand.
Petals pale pink. Filaments
deep carmine pink. Bracts
pale green. det. R. S. Cowan 1981.

9638. Calathea Marantac.
(15) Herb in clearing along lumber
road in forest on white sand.
Petiole and peduncle dark red-
purple. Bracts green with
thin white margin. Flowers
yellowish cream through-
out. Pulvinus dark brown.

MAR 16 1980

Leaves shiny, medium green above, pale dull glaucous green beneath.

9639, Dioscorea

Dioscoreac.

(5) Vine 1 m tall among shrubs in open white sand "campina". Arising from starchy tuber 6 cm diameter. Staminate flowers light green, anthers bright red-orange. Pistillate flowers light green, fruits dark red-purple.

9640, Epidendrum^{um}

Orchidac.

(7) Epiphyte on fallen tree trunk in forest. Flowers light yellow-green throughout.

9641, Lycopodium

Lycopodiace.

(1) Epiphyte on fallen tree trunk in forest on white sand.

9642, Solanum schlechtendolium^{Welp.} Solanac.

det. H. Noel 1982

(13) Shrub 3 m tall in thicket along lumber road through forest on white sand. Flowers

MAR 16 1980

pendulous, beneath the leaves. Petals white, Anthers yellow. Podicels turning erect in fruit, the fruits pushed against the lower leaf surface and hidden from view; immature fruits greenish white.

9643. Solanum rugosum Dun. ^{Solanum} det. W. G. D'Arcy 1981.
(11) Treelet 4 m tall in

open thicket along lumber road through forest on white sand. Corolla white. Immature fruits green, inhabited by biting ants.

9644. Gurania bignoniaceae (Poepp. + Engl.) Cogn. ^{Cucurbitac.}

(5) Herbaceous vine in secondary thicket along lumber road through forest on white sand. Perianth orange. det. C. Jeffrey 1981.

MAR 16 1980

9645 Erythroxylum tucuruiense Plowman Erythrox

(14)

Det. T. Plowman 1984.

Slender treelet 5 m. tall x 3 cm

diameter growing in under-
story of forest on white

sand. Bark thin, light tan,

smooth, somewhat shiny,

dotted with lenticels. Branches

erect, spreading, not storied,

Leaves medium green above,

somewhat shiny, with promi-

nent lateral nerves; Leaves

beneath dull, pale glaucous

green with dark green

finely drawn veinlets. Imma-

turate fruits pale green.

9646. Asplenium serratum

(5)

Rosulate epiphyte on fallen
log in forest. det. Mickel + Atehortua 1981.

Fern

9647. Epiphyllum phyllanthus (L.) Hou Cactac.

(2)

Epiphyte on fallen tree
trunk in forest on white
sandy. Fruits bright cormine
pink at maturity.
det. M. Krimmich 1982.

MAR 16 1980

9648. Aniba williamsii O. C. Schmidt Laurac.
(9)

Shrub 2.5 m. tall, in
secondary thicket in forest
margin. Young fruits brown.
det. K. Kubitzki 1982.

9649. JANUSIA JANUSIODES (A. Juss.) Malpigh.
(7)

Vine among shrubs
in white sand "campina".
Glands light green. Petals
deep golden yellow. Fruits pale
green at base, wings reddish.
DET. W. ANDERSON 1990

9650. Cyperus haspan L. ssp. junci formis Kuck
(10) Cyperac.

F Herb in marshy area
in white sand "campina".
det. T. Koyama 1981

9651. Orchidac.
(1) Epiphyte on tree trunk
in forest on white sand.
Fruit green.

9652. Scaphyglottis Orchidac.
(1) Epiphyte on tree trunk
in forest on white sand.
Fruit green.

MAR 16 1980

9653. EUGENIA

Myrtac.

(12) Tree 7 m. tall x 15 cm.

diameter, growing in forest

wood margin along lumber road,
on white sand. Fruits green,
turning yellow, then orange,
then black at maturity.

(DET. L. LANDRUM, 1981)

9654 Chrysophyllum

Sapotac.

(12) Shrub 3 m. tall growing
in white sand "campina".

wood Flowers pale green.

MAR 17 1980

BRAZIL: Estado Pará. Município de Tucuruí. Breu Branco, 40 km south of Tucuruí Dam Site on BR 422. Alt. 90 m. Ca. 3°55'S, 49°44'W. 17 MARCH 1980.

Collectors: T. Plowman, N.A. Rosa, C. S. Rosario.

9655. Pithecollobium cochleatum (Willd.) Mart. Legum.

(7) Tree 8 m. tall x 12 cm. diameter in margin of secondary thicket. Fruits shiny light green, turning red brown. Seeds pale blue. det. R. Barneby 1986.

9656. Strychnos PARVIFOLIA A. DC. Loganiac.

(9) Scandent shrub in secondary thicket in margin of "campina" on sandy soil. Fruits orange, globose. (DET. B. A. KRUKOFF (1981))

9657. Erythroxylum citrifolium St. Hil.

(10) Sens. lat. Det. T. Plowman Erythrox

Slender spindly shrub

→ F 3 m. tall in low secondary forest on sandy soil. Leaves shiny dark green above, yellowish

MAR 17 1980

green pale beneath with finely
drawn dark green venulets.
Bark greyish brown, smooth.
Fruits immature, pale green.

9658. PANICUM TRICHOIDES SW. (DET. G. DAVIDSE, 1980) Grass
(11) grass with decumbent stems
in partial shade of secondary
growth on white sand.

9659. STREPTOSTACHYS ASPERIFOLIA DESV. Grass
(13) (DET. G. DAVIDSE, 1980) spindly grass in shade in
margin of secondary growth on
white sandy soil. Stems decum-
bent at base, resting at the
nodes.

- 9660 Cuphea Lythrac.
(9) Slender herb in open
white sand 'campina'. Calyx
pale green. Petals magenta.

9661. Erythroxylum tucuruense Plowman Erythrox.
(5) Weak shrub 2 m. tall in low second-
ary forest on white sand. Sterile.

Det. T. Plowman 1984

MAR 17 1980

9662. P. Plicatum Michx. [DET. FILGUEIRAS, 1998]
(14) Paspalum plicatula group - biconvex spikelets
Grass in dense clumps
on open roadside on reddish
clay soil. Stems and leaf
sheaths red-purple at base.
det. Davidse 1980.

- 9663 AXONOPUS POLYDACTYLA (STEUD.) DEDECCA (Tram.)
(11) AXONOPUS POLYDACTYLA (STEUD.) DEDECCA (Tram.)
[DET. G. DAVIDSE, 1980]
Grass growing in dense
clumps with Trachypogon
in open white sand "campina".

9664. Ichthyothere TERMINALIS (SPRENG.) MALME
(11) Ichthyothere terminalis (SPRENG.) MALME
[DET. H. ROBINSON 1981]
Aromatic herb to 60 cm. tall in
margin of white sand "campina".
with thick underground xylom-
podium. Florets white.

9665. Dichorisandra sp. Commelinaceae
(7) Scandent climbing in
margin of low secondary forest
on white sand. Upper 2 petals
blue-violet, lower petal
blue violet with wide central
white stripe. Fruits shiny,
purple black. Aril bright
orange. [= Coelho de Moraes 954 (us).]
det. R. Foden 1981.

9666. Neea

Nyctaginac.

- (10) Tree 6 m. tall x 15 cm. diameter in margin of white sand "campina". Immature fruits light greenish yellow, perianth cream. Mature fruit and persistent perianth carmine pink.

9667.

Malpighiac.

- (7) Vine in margin of white sand "campina" in thicket. Petals deep yellow-orange. Fruits pale green with reddish wings.

9668. Psidium

Myrtac.

- (5) Treelet 3 m. tall in low secondary forest on white sand. Fruits green. det. L. Landrum 1981.

9669. Chamaecrista flexuosa (Linn.) Greene

det. R. Barneby 1981.

Legum.

- (9) Shrub to 70 cm. tall in open white sand "campina". Petals deep yellow.

9670. Croton microcarpus Muell. Arg. Euphorb.

- (10) Subshrub to 1 m. tall in margin of white sand "campina".

MAR 17 1980

Flowers cream. Fruits yellow-green. det. M.-J. Huft 1984.

P. STELIS (L.) KUIJT COMB. INED. (KUIJT 1994)

9671 Plathyrus retroflexa (R. + P.) Kuijt *Chorizanthe*

(11) Hemiparasitic shrub in margin of low secondary forest on white sand. Flowers white, very fragrant det. J. Kuijt 1981.

9672. Byrsonima inodorum Moore *Melastomaceae*

(11) Treelet 3 m tall in open white sand "campina". Inflorescence axis tawny brown. Glands deep yellow. Petals light yellow. det. W.R. Anderson 1982.

9673. Arrabidaea dispar Bur. ex K. Schum. *Bignoniaceae*

(5) Vine in thicket in white sand "campina". Fruits green. det. A. Gentry 1981.

var. hexandra (Willd. ex R. + S.) Prance

9674. Hirtella raemosa Lam. (*Chrysobalanaceae*)

(5) Low shrub 1 m. tall in open white sand "campina". Pedicel and receptacle dark red. Calyx light green. Petals pink. Filaments dark red. det. Prance 1981.

MAR 17 1980

9675. Borreria LATIFOLIA (AUBL.) SCHUM. Rubiac.
(11) Tall herb 1 m. in margin
of white sand "campesina".
Corolla white. Stems dark purple
DET. J. KIRKBRIDE 1981

9676. Solanum Solanac.
(12) Roadside shrub 2.5 m. tall
in thicket. Corolla white. Anthers
yellow. Fruits dull green.

9677 Chamaecrista bahiæ (Früh) Irwin & Barnedy Legum.
(11) Tree 6 m. tall x 7 cm
diameter in open roadside
thicket. Petals deep yellow.
Anthers very pale green.
det. R. Barnedy 1981.

9678 MEZILAUROS ITAUBA (MEISSNER) LAURAC.
(10) Shrub 2 m. tall in open
roadside thicket. Flower buds
green. DET. HANK VANDERWERFF 1986

9679. Cordia polycephala (Lam.) I. M. Johnston. Boraginac.
(9) Straggly shrub 3 m. tall in
open roadside thicket. Flowers
cream. Fruits red.
det. J. Kallunki 1984.

MAR 17 1980

9680. Dalechampia scandens L. Euphorb.
(8) Vine in open roadside
thicket 3 km north of
Bren. Branco. Bracts and
fruits green. det. M.J. Huft 1984.

9681. Urena lobata L. var. reticulata Malvaceae
(11) Herb 2.5 m. tall in thicket
on roadside. Corolla deep pink,
corolla red at center. det. P. Fryxell
1982

9682. Rollinia exsucca (DC. EXDUNAL) ^{R.E. FRIES} Annonaceae
(11) Tree 7 m. tall with long
spreading branches growing
in roadside thicket 3 km
north of Bren. Branco. Perianth
dull creamy yellow.
DET. P.J.M. MAAS, 1998

9683. Byrsonima inodorum Moore Malpighiaceae
(11) Tree 7 m. tall in low
secondary forest on white
sand. Fruits shiny, light
green, immature.
n.v. "muruci bravo"
det. W.R. Anderson 1981.

MAR 17 1980

9684. Arrabidaea conjugata (Vell.) Mart. s.l. Bignoniaceae
(6) Sprawling vine in open roadside thicket 3 km. north of Breu Branco. Corolla lavender pink. det. Gentry.

9685. Lantana tiliaefolia Cham. Verbenaceae
(9) Subshrub 2.5 m. tall in dense roadside thicket, 3 km north of Breu Branco. Corolla white, yellow at throat, turning rose pink with age. det. H. N. Moldenke 1981

9686. Lantana cujabensis var. paraensis ^{Moldenke} Verbenaceae
(7) Prickly subshrub 2.5 m. tall in dense roadside thicket along road 3 km north of Breu Branco. Corolla white with yellow spot at throat, turning rose pink with age. det. Moldenke 1981.

9687 STIGMAPHYLLON PALMATUM (CAN.) ^{ADR. JOSS.} Malpighiaceae
(10) Twining vine in open roadside thicket along road 3 km north of Breu Branco. Glands green. Petals bright yellow. Inhabited by fierce biting ants. DET. C. ANDERSON, 1993

MAR 17 1980

9688. Guazuma ulmifolia Lam. Sterculiac.
(71) Shrub 2 m. tall in
open roadside thicket 3 km
north of Breu Branco.
Flowers white. det. P. Matekaitis 1982
(Aubl.) Radlk.
9689. Pseugma frutescens Spinde
(31) Shrub 2.5 m. tall in
open roadside thicket 3 km
north of Breu Branco. Corolla
white. det. Kew 1984.
(HBK.) DC., det. B. Holst
1988. Myrtac.
- 9690 EUGENIA puniceifolia
(10) Shrub 2.5 m. tall in
shrub island in open white
sand "campina" Fruits green,
turning orange; bright red
when mature. (DET. L. LANDRUM, 1981)
GEN.
- 9691 Abuta grandifolia SANDW.
(11) Spindly treelet 3 m. tall
in low secondary forest
on white sand. Fruits orange
at maturity (DET. B.A. KRUKOFF, 1981)
(MART.) Menisperm.

MAR 17 1980

Euphorb.
Flacourt

9692,

(10)

WOOD

Tree 10 m. tall x 15 cm diam
in low secondary forest on
white sand. Fruits purple
black.

9693, Parkia sp. aff. P. platycephala Benth. Legum.
+ P. parsonsii Ducke

(9)

WOOD

Tree 8 m. tall x 20 cm
diam. in white sand "campina".
Sterile. det. G. D. Lewis 1981

9694, Dioclea aff. violacea Mart. ex Benth. Legum.
det. R. H. Maxwell 1982.

(12)

Scandent vine in open
roadside thicket along road
5 km north of Breu Branco.
Corolla violet, greenish white
at throat. Calyx purple black.

var. scabrior Doell

9695, Ichnanthus calvescens (Nees) Doell Gram.

(11)

Grass growing in clumps
in margin of secondary forest
on white sand. det. Davidse 1981.

9696, Panicum PILOSUM Sw. Gram.

(11)

Grass on open road cut in
red clay soil. (DET. G. DAVIDSE, 1980)

MAR 17 1980

9697. Panicum millegrana Poir. Gram.

(6) Growing on open road cut
on red clay soil. Stems decum-
bent at base, rooting at nodes.
det. Davidse 1981.

9698. Camptosema ellipticum (Desv.) Burk. Legum.-Papil.

(9) Twining vine to 2 m.
tall among shrubs in open
white sand Campina.
Banner pale orange with
carmine stripes without,
carmine pink within.
Wings carmine pink, white
at base. det. R. Barneby 1981.

9699. Amasonia lasiocaulos Mart. ^{Schau.} Verben

(13) Unbranched subshrub
in margin of white sand
campina in partial shade.
Bracts bright red turning
dark red with age. Calyx
light green to red. Corolla
light yellow. Fruits light
green, shiny black at ma-
turity.
det. H. N. Moldenke 1981.

MAR 17 1980

9700. Hymenaea courbaril L. Legum.

(11) Tree 7 m. tall x 5.5 cm diam.
in low forest on white sand.
Fruits dark brownish green
with red-brown spots.
det. R.S. Cowen 1981.

9701. Costus Zingiberac.

(1) Herb 1.5 m. tall in open
moist thicket in Breu Branco.
Bracts green. Calyx red.
Corolla white. Labellum white
with pink blush within and
yellow nectar guide. Stamen
white with pink blush.
Anther white.

9702. Mandevilla scabra (Roez. & Schult.) K. Schum. Apocynac.

(9) Twining vine 4 m. tall
in margin of low forest on
white sand. Corolla creamy
yellow with pale pink stripes
at center. Latex white.
det. Leuvenberg 1981.

subsp. tripartita

9703. Manihot tripartita (Spreng.) Macell. Arg. Euphorb.

(14) Spindly shrub to 1.0 m tall
in white sand "campina". Latex
white. Roots thick-starchy.

MAR 17 1980

bearing globose tubers.
Bracts yellow-green, apically
reddish. Perianth tube
greenish yellow, lobes creamy
white. Fruit green det. M.J. Huft
1984.

9704. Amasonia Verbenaceae

(10) Unbranched subshrubs to
1 m tall in open white sand
"campina". Bracts red adax-
ially, green to yellow
abaxially. Calyx light green
to red-purple. Corolla pale
green. Fruits black at
maturity.

9705. Convolvul.

(1) Slender vine among low
shrubs in open white sand
"campina". Corolla light blue-
violet.

9706. Ipomoea decora Meisn. in Mart. Convolvul.

(13) Twining vine in margin
of low forest on white sand.
Corolla white, lobes reddish
purple, white within det. D.F. Austin 1980

Collectors: T. P. P. P. P., N. A. Rosa,
and C. S. Rosario.

1980

MAR 18 1980

BRAZIL: ESTADO PARA: Município
de Tucuruí. Road from Tucuruí Dam
Site east to BR-150, 16 km east of
Rio Tormentins on PA-263, Ca. $3^{\circ}45'S$,
 $49^{\circ}39'W$. Alt. 70 m.
18 Mar. 1980.

9707 Monotagma DENSIFLORUM Marantac.
(12) (KOERNICKE) SCHUMANN
Herb 1.2 m. tall in swampy
forest on white sand. Bracts
carmine red, pink at margin.
Flowers pure white. DET. H. KENNEDY 1992
fotos.
live: A. F. Lyon

9708. Rapateza PALUDOSA AUBL. Rapatez.
(11) Herb to 1 m. tall in swampy
forest on white sand. Bracts
green. Flowers past
(DET. B. MAGUIRE 1981)

9709. Rhynchospora comata Schultes Cyperac.
(11) Sedge in marshy area in
F cleared burned area in white
sand 'campina'. Spikes white
det. T. Koyama 1981

9710. Rhynchospora tenuis Lk. Cyperac.
(10) Growing in moist open area
F on coarse gravel in white sand
'campina'. (smutted)
det. T. Koyama 1981

MAR 18 1980

9711. Lagenocarpus verticillatus (Spr.) T. Koyama & Maguire
(7) Growing in open moist
F area in coarse gravel in
white sand. Cyperac.
det. T. Koyama 1981

9712. PERAMA DICHOTOMA P. & E. Rubiac.
(17) Diminutive herb on low
hummocks of organic matter
in open, cut and burned
lowlying area in white
sand. Campina; leaves dark
green above, purplish be-
neath. Inflorescence light
green or dark red purple.
Corolla white. DET. KIRKBRIDE 1981

9713. Trichomanes ARBUSCULA DESV. Hymenoph.
(11) Clumped terrestrial
fern growing on raised hum-
mocks in lowlying forest
on white sand. DET. MICKEL & ATEHORTUA 1981

A. EGLERI SMITH & DOWNS R. KRAL 1988
9714. Alboboda pulchella H. & B. Xyridac.
(10) Growing on moist open
coarse gravel in white sand
"campina"; Corolla and filaments
blue. Anthers yellow. det. R. Kral 1982.

fol.

9715. Sauvagesia Ochnac.
(11) Low herb with spreading branches in open moist area on coarse gravel in white sand "campina". Petals pink.

9716. Paspalum hyalinum Nees ex Trin. Gram.
(11) Growing in small clumps in moist area in white sand "campina". det. Davidse 1980.

9717. Schizaea incurvata Schkuhr. Schizaeac.
(3) growing in low, open, cleared and burned area in white sand "campina". det. Mickel + Atehortua 1981.

9718. S. TENUIS (KUNTH) ROHL. DET. N. HENSOLD 1989
SYNGONANTHUS GRACILIS (BONG.) ROHL. Ericaculac.
(7) Growing in open wet area on coarse gravel in white sand "campina". Heads whitish
(DET. H. HOLDENKE, 1981)

9719. Epiphyllum phyllanthus (L.) Haw. Cactac.
var. phyllanthus
NY (3) Sprawling epiphyte on tree trunk in margin of low lying forest on white sand. Corolla tube greenish yellow in bud. Immature fruit green. det. M. Kinnock 1987.
(inv. A. Fernandez)

MAR 18 1980

9720. Iribachia nemorosa (Willd.) Merr. Gentianaceae.
(3) Herb growing in raised hummocks of organic matter among shrubs in marshy area in white sand "campina". Corolla, stamens & pistil pure white. det. Meas 1983.

9721. Utricularia subulata L. Lentibulariaceae.
(16) Delicate herb in shallow running water in marshy area in white sand "campina". Corolla light yellow, with orange spot at throat. Stems red-purple. det. P. Taylor 1981.

9722. Utricularia subulata L. Lentibulariaceae.
(21) Delicate herb in shallow running water in marshy area in white sand "campina". Corolla pale yellow throughout. Stems green. det. P. Taylor 1981.

9723. Utricularia nana St. Hil. Lentibulariaceae.
(5) Delicate herb in shallow running water in marshy area in white sand "campina". Corolla light yellow. det. P. Taylor 1981.

MAR 18 1980

9724. Prodenia Sapotac.

(8) Tree 3 m. tall in white
sand 'campina'. White
latex. Immature fruits
green.

wood

9725. Phyllanthus dinizii Huber Euphorb.

(12) Shrub 1.5 m. tall in white
sand 'campina'. Flowers
cream. Fruits green.

det. M. J. Huft 1984.

9726.

(8) Sapotac.

wood Shrub 30 cm. tall with
white latex in white sand
'campina'. Buds brown.

Mesosetum loliiforme (Hochst.) Chase det. Figueiras 1984

9727. Mesosetum tenuifolium Swallen Gram.

(13) Rhizomatous grass growing
in open moist areas on coarse
gravel in white sand 'campina'.

det. Davidse 1981.

9728. Cybianthus amplus (Mez) Agostini s.l. Myrsinac.

(12) Shrub 1.5 m. tall in white
sand 'campina'. Fruits shiny
black.

det. J. Pipoly 1982.

MAR 18 1980

9729. BLEPHARODON

Asclepiad.

(5)

Twining vine with white latex in thicket in area of cleared forest on white sand. Corolla green. Column yellow, apical process dark brown.

(DET. R. CALLEJAS 1981)

9730. EUGENIA puniceifolia (H.B.K.) DC. Myrtac.

(9)

Low shrub, 70 cm tall in white sand "campina". Buds green. Fruits green turning yellow, then red.

(DET. L. LANDRON 1981)

det B. Holst 1988.

9731

(8)

Retinophyllum schomburgkii (Benth.) Rubiac.

Shrub 1.5 m. tall in white sand "campina". Calyx dark red purple. Corolla pale pink.

det. B. Boom 1981.

9732. Dacryodes

Burserac.

(1)

Shrub 1 m. tall in white sand "campina". Buds cream.

MAR 18 1980

9733.

Eriocaulac.

(1)

Growing in cleared, burned area rich in organic matter at edge of white sand "campina". Heads pale green.

9734. Humiria

Humiriac.

(10)

Low sprawling shrub 0.5-1.5 m. tall formed large islands in white sand "campina".
flos. Corolla and filaments tube white. Anthers yellow. Immature fruit green. Frequent.

9735. Cassytha filiformis L.

Laurec.

(7)

Hemiparasitic vine on Humiria (#9734) in white sand "campina". Stems orange to green. Buds cream.
det. A. v. d. Werff 1985.

9736.

Sapotac.

(8)

Shrub 40 cm. tall in white sand "campina". Immature fruit green. Latex white.

9737. Polygala appressa Benth.

Polygalac.

(3)

Herb in white sand "campina". Flowers greenish yellow. det. J.J. Wink 1981.

MAR 18 1980

9738. Adiantum Fern

(5) Terrestrial fern in low lying forest on white sand with thick layer of humus.

9739. Adiantum Fern

(8) Terrestrial fern forming large clump in low lying forest on white sand with thick layer of humus.

9740. Psychotria cf. mapourioides DC. Rubiac.

(7) Shrub 3 m. tall in low lying forest on white sand with thick layer of organic matter. Fruits green. det. Kirkbride 81

9741. CYBIANTHUS SURINAMENSIS (SPRENG) AGOSTINI Myrsinac.

(8) Tree let 4 m. x 3 cm. diam. growing along stream in low lying forest on white sand. Flowers cream.
wood
(DET. J. J. PIPOLY, 1981)

9742. Desmoncus Palmae

(1) Climbing armed palm 1.5 m. tall in low lying forest on white sand. Fruits red. Frequent.

MAR 18 1980

(Benth.) Miers

9743. Emmottum acuminatum Icacinac.

(9) Shrub 1.5 m. tall in white
Sandy "campina". Flowers
cream. det. R. A. Howard 1984.

9744. CONOLIA VERNICOSA (Benth.) Triana Melastom.
(DET. J. J. WURDECK 1981)

(11) Shrub 50 cm tall in white
sandy "campina". Calyx cream
Petals red-purple.

9745. Tococa nitens (Benth.) Triana Melastom.

(2) Shrub 1.5 m. tall in thicket
in cleared and burned area
at margin of white sand
"campina". Rachis red. Ovary
and calyx green. det. J. J. Wurdeck 1981.

9746. Doliocarpus spraguei Cheesm. Dilleniace.

(12) Shrub to 1.2 m. tall in
white sand "campina". Flowers
pale white. Fruits red at
maturity. det. K. Kubitzki 1982.

9747. Pogonaea GUIANENSIS Aubl. var. GUIANENSIS RUB.

(11) Shrub 2.0 m tall in white
sand "campina". Immature
fruits green. DET. J. KIRKBRIDE 1981

MAR 18 1980

9748. Curatella Ochneac.

(4) Shrub 1.5 m. tall in white sand "Campina". Fruiting calyx red, immature fruit green turning black.

9749 Macrolobium angustifolium (Benth.) Cowen legum.

(10) Shrub 30 cm. tall in white sand "Campina". Flower buds green det. R. J. Cowen 1981.

→ Exochogyne amazonica C. B. Clarke det. G. Davidse 1981

9750. Scleria cyperina Kunth Cyperac

(11) Growing in lowlying, cleared and burned area at edge of white sand "campina". Spikes dark brown, anthers yellow det. T. Koyama 1981

9751. AXONOPUS PUBIVAGINATUS ^{BLACK} HENR. VAR. LIMAE Gram.

(10) Growing in cleared and burned area at edge of white sand "Campina".
(DET. G. DAVIDSE, 1980)

9752. Phthirusa retroflexa (R. + P.) Kunt Loranth.

(5) Sprawling hemi-parasite on Pegomea (#9747) and other shrubs in white sand.

MAR 18 1980

"Campina". Flower buds cream.
Fruits green, det. J. Kuijt 1981

9753. Trachypogon SPICATUS (L.f.) ^{KUNTZE} Gram.
(10) Scattered among low shrubs
foto in white sand "campina";
with 2-3 culms per clump.
DET. T. FILGUEIRAS, 1998

9754 Fern
(2) Epiphyte on tree trunk
in low lying forest on white
sand.

9755. Lagenocarpus rigidus Nees Cyperac.
(11) Coarse herb in clumps
F in moist areas on coarse
gravel in white sand "campina".
det. T. Koyama 1981

9756. Exochozyne amazonica C.B. Cyperac.
(7) Growing at edge of marshy
area in white sand "campina".
det. T. Koyama 1981.

9757. ^{ROB. SCHOMB.} CEPHALOSTEMON GRACILIS (P. & E.) Rapateac.
(11) Herb growing in small clump
at edge of marshy area in
white sand "campina". Infl-
orescence green. Corolla yellow.
(DET. B. HAEGHES, 1981)

MAR 18 1980

9758. Ipomoea Convolvul.
(11) Twining vine in cleared
and burned area at margin
of white sand campina.
Calyx green. Corolla shiny,
dark carmine red within;
lobes dark carmine red,
tube white within.

9759. Ischnosiphon PUBERULUS ¹⁹⁹⁸ ~~Loefl.~~ ^{DET. L. ANDERSSON} ~~Loefl.~~ ¹⁹⁹⁸ ~~Loefl.~~
(10) Erect or scandent herb
to 2 m. tall in lowlying
forest on white sand. Bracts
green. Corolla tube and
petals red-purple. Stamens
nodes pale yellow.

9760. Abolboda americana (Aubl.) L'anj. Cyperac.
(3) Diminutive herb in shallow
F running water on coarse
sand in open white sand
"campina". det. H. Balslev 1981

9761. Bigon.
(7) Growing on fallen tree
trunk in lowlying forest on
white sand.

MAR 18 1980

9762. Cladonia SPRUEI AHTI Lichens
(11) Growing on open-exposed
coarse white sand in white
sand "campina". Whole plant
grey-green. det. R. Harris 1981.

9763. Cladonia erythromelaena M. Arg. Lichens
(11) SPRUEI
Growing among shrubs on
coarse white sandy soil
in white sand "campina".
Plant grey-green. Carpo-
phores red. det. R. Harris 1981.

MAR 19 1980

Collectors: T. Plowman, N.A. Rosa
and C.S. Rosario.

BRAZIL: Estado Pará, Município
de Tucuruí. Road from Tucuruí
Down Side east to BR 150
8.8 km east of Rio Tocantins on
PA-263. Alt 70-80 m. Co. $3^{\circ}45'S, 49^{\circ}41'W$.
19 MAR 1980.

ex Rogers + Appan.

7764. Marrihot quinquepartita Huber Euphorb.

(11.) Shrub 2.5 m. tall in
open roadside thicket. Petioles

reddish on upper surface.

Bracts pale yellow-green.

Staminate perianth pale green.

Without tube within deep

red-purple. lobes cream.

Fls bearing sparse small

stamens. Fruits light

green. det. M.-J. Huft 1984.

foto

9765. Passiflora Passiflor

(8) Sprawling vine on open
roadside with prostrate
stems. Bracts dark red. Sepals
greenish red abaxially, red
adaxially, whitish at base.
Petals red. Corolla pinkish
white at base, carmine red at
middle. Terminal 'spine' dark

MAR 19 1980

purple-black. Androgynophore
and filaments red. Anthers
yellow. Style red. Stigma cream.

9766 Gurania subumbellata (Miq.) Cogn. Cucurbit

(117) Coarse herbaceous vine in
open roadside thicket.

foto

Calyx tube orange, petals
greenish yellow. det. C. Jeffrey 1981.

L. C. Rich.

9767. Heliconia acuminata "tarumaensis" Musac.

(23) Herb 1.6 m. tall in open
bare roadside in clayey soil.

foto
(A) → DUKE Stems and peduncle dark
red purple. Inflorescence axis

and branch bracts bright car-
mine pink. Pedicel pale yellow,
photos. ovary yellowgreen in lower half,
dark green in apical half.

Live: SEL

Perianth pale yellow, sometimes
with dark green stripes on "ribs".

9768. Solanum subinerme Jacq. Solanac.

(8) Armed shrub in open roadside
thicket, to 2 m. tall. Corolla
pale violet. Anthers yellow.

det. M. Ne 1982.

MAR 19 1980

9769. Solanum schlechtendolianum Wulp. Solanac.

- (11) Shrub 2.5 m. tall in open roadside thicket. Flowers pendulous; corolla white, anthers yellow. Fruiting pedicels turning erect, hiding fruits underneath subtending leaf. Fruits pale green. det. M. Ne 1982.

9770. Aegiphila amazonica Mold. Verbenac.

- (11) Shrub 2 m. tall in open roadside thicket. Calyx yellow-green. Corolla white. det. Moldenke 1986.

MAR 19 1980

Collector: T. Plowman, N.A. Rosa,
and C. S. Rosario.

BRAZIL: Estado Pará: Município
de Tucuruí Road from Tucuruí
Dam Site to BR 150, 15.6 km,
east of Rio Tocantins on PA-263.

Alt. 70 m. 19 mar 1980.

Ce. 3°45'S, 49°37'W

9771. Ipomoea Convolvul.

(9) Twining vine in cleared area
along road in low forest on
white sand. Corolla pale pink
without, lobes pale pink;
tube light red-violet within.
foto

C. TINCTORIA MARTIUS [J.A. LOMBARDI 1993]

9772. Cissus sicyoides L. Vitac.

(11) Sprawling vine on cleared
white sand area in margin of
low forest. Flowers pale yellow.
F

det. J. Kallunki 1981

9773. Sigmatanthus trifolius Huber ex ^{Emmerich} Rutac.

(5) Shrub 1.5 m. tall in margin
of low forest on white sand.
Fruits green. det. J.R. Pirani 1986.

9774. Pilocarpus microphyllus ^{Stepf ex Wardleworth} Rutac.

(13) Shrub or treelet to 3 m. tall
in margin of low forest on
white sand. Buds light green.
F wood Fruits green. det. J. Kallunki 1983.

MAR 19 1980

9775 Calliandra aff. C. sessilis Benth. Legum.
(12) Shrub 3 m tall in margin
fotos. of low forest on white sand.
Filaments white, apically carmine
pink det. R. Barneby 1981

9776. Dioscorea Dioscoreac.
(11) Twining vine in open
thicket in along road on
pure white sand. Tuber round
and flattened, 6.5 cm diameter
2.5 cm. thick. Perianth dark
purple-brown. Unripe fruit
light green.

9777. Acanthace
(4) Herb to 1m. tall in edge of
low, open forest on white sand.
Corolla tube white, lobes
tinged pale violet.

9778 Costus lanceolatus O.G. Peters. ssp. pulchri flora (Ducke) Maas Zingib.
(8) Herb in margin of open
low forest on white sand. Calyx
and capsule green. Corolla orange.
Inver AIF, Lyan Labellum bright red.
det. P. J. M. Maas 1981.

MAR 19 1980

9779. Pariana

Cram

- (8) Clumped herb in margin of low forest on white sand. Spikes yellowish.

9780. Abuta grandifolia (MART.) ^{SANDW.} Menisop

- (5) Treelet 3 m. tall in low open forest on white sand. Immature fruits green.
(DET. B. A. KRUKOFF, 1981)

9781. Psychotria koppleri (Mig.) M. Arg. Rubiac

- (11) Low shrub to 1 m. tall in low open forest on white sand. Flowers pure white. Fruits dark red. det. Kirkbride 1981.

9782. Voyria tenella Hook. Gentianac.

- (12) Delicate epiphytic in leaf litter in low forest on white sand. Whole plant white. Flowers white with yellowish spot at throat. det. P. J. M. Maas 1981.

foto

(A) → u

(B) → K

9783. Rhabdodendron amazonicum (Spruce ex Benth.)

- (10) Tree 6 m. tall in low forest on

(B) → K white sand. Receptacle rusty brown. Fruits shiny green. det. Prance 1981.

MAR 19 1980

9784 PAEPALANTHUS SUBTILIS MIQ. Eriocaulaceae
(9) Herbs on open white sand
bank along road. Heads
white. (DET. H. HOLDENKE, 1981)

9785 Erythroxylum ligustrinum DC. Erythroxylum
(9) var. ligustrinum
Treelet 4 m. tall with
sterile branches in low forest
on white sand. Leaves dull
medium green above, pale glau-
cous dull green beneath with
yellowish midrib. Twigs red-
brown. Sterile. Det. T. Plowman

9786. Pychotria barbiflora DC. Rubiaceae
(11) Shrub 1.5 m. tall in low
forest on white sand. Imma-
ture fruits light green. Det. Kirkbride 1981

9787. Erythroxylum tucuruiense Plowman Erythroxylum
(12) Shrub 2 m. tall near
margin of low forest on
white sand. Twigs dark grey-
brown. Leaves slightly shiny dark
green above with impressed
nerves, dull pale glaucous
green beneath. Det. T. Plowman 1984.

MAR 19 1980

- 9788 Xanthosoma helleborifolium (Jacq.) Schott Araceae
(7) Herb in near margin of
low forest on white sand.
Tuber round, flattened, white,
bearing numerous small black
tubercles. Petioles mottled dark
green and white. Sterile.
det. T. Croat 1981.

- 9789 Erythroxylum tucuruiense Plowman Erythrox.
(11) Tree let 6 in. tall x 3 cm.
diam. near ^{lumber road} in low forest on
white sand near forest margin.
Leaves dull dark green above,
with impressed nerves; dull
pale glaucous green beneath.
Twigs dark grey brown. Sterile.
Det. T. Plowman 1984.

- 9790 Helosis cayennensis Balanoph.
(3) Root parasite growing from
rounded tuberous growths near
the surface in low forest on
white sand. Peduncle and
inflorescence dark red-orange.

9791A. Sorva fruits on forest floor,
sent to JZ. Latex white, sticking, foetid.
M. Fallon-JZ

Coll. T. Plowman, N.A. Rosa and
C. S. Rosario.

MAR 19 1980

BRAZIL: Estado, Pará. Município
de Tucuruí. Road from Tucuruí
Dam Site to BR 150, 12 km.
east of Rio Tocantins on PA-253.
Alt. 70 m. Ca. $3^{\circ}45'S$, $49^{\circ}40'W$.
19 Mar 1980.

9791. Cupania

Sapindac.

(11) Tree 5 m. tall in high
wood forest on sandy soil. Buds
yellow.

9792. Anthurium sinuatum Benth. ex ^{Schott.} Arac.

(9) Climbing epiphyte on
tree trunk in low forest on
white sand. Spathe light
green, reflexed. Spadix pale
brown. det. T. Croat 1981.

9793.

Rosac.

(2) Shrub 3 m. tall in low
forest on white sand. Fruits
still green.

9794.

Sapotac.

(12) Treelet 5 m tall x 8 cm
diameter in low forest on
wood white sand. Latex white.

Buds and immature fruits
light green.

O.E. Schulz

9795, Erythroxylum leptoneurum Erythroxylum
(6) Shrub 2.5 m. tall with storied

Det. T. Plowman

branches in understory of tall forest on sandy soil. Leaves medium green, dull above with impressed nerves; shiny pale green beneath with prominent nerves.

9796, ERAGROSTIS MAYPURENSIS (H.B.K.) STEUD. Gram.
(11) Forming small clusters on open sandy roadside.
(DET. G. DAVIDSE, 1980)

9797, Bactris elegans Barb. Rodr. Palmac.
(2) Small slender palm 2.5 m. tall in understory of tall forest, on sandy soil. Fruits black at maturity. det. A. Henderson 1987.

9798, Solanum Solanac.
(13) Armed shrub 2 m. tall in open sandy roadside. Leaves dark shiny green above, dull golden brown beneath. Corolla white.
foto

MAR 19 1980

9799. Streptogyne americana C. E. Hubb. Gram.
(2) Growing in margin of
tall forest on sandy soil.
in small clumps. det. Davidse 1981.

9800. ICHNANTHUS PANICOIDES BEAUV. Gram.
(3) (DET. G. DAVIDSE, 1980)
growing in understory of
tall open forest, on sandy soil.

9801. Tabernaemontana Apoc.
(3) Erect shrub 50 cm. tall on
bare sandy roadside. Corolla
tube rose pink, lobes white
erect, twisted, throat deep
yellow. Latex white.

9802. Cordia exaltata Lam. Borag.
(2) Erect shrub 2 m. tall
in open roadside thicket. Leaves
shiny both sides; dark green
above, light green beneath.
Corolla white, det. J. Kollunki 1985.

9803. Erythroxylum citrifolium ^{St. Hil.} Erythrox.
(3) Shrub 1 m. tall in under-
story of tall open forest on
sandy soil. Leaves dull

Det. T. Plowman

dark green above; very pale
glaucous dull green beneath.
Sterile. Only one seen.

9804. Erythroxylum citrifolium ^{St. Hil.} Erythrox
(4) Slender spindly shrub

Det. T. Plowman

2.5 m. tall in low forest on
white sand. Leaves shiny
dark green above; shiny light
yellowish green beneath.
Sterile.

9805. Eugenia ^{Myrtac.}
(3) Treelet 3 m. tall in
wood low forest on white sand.
Fruits red at maturity.

9806. Asplenium SERRATUM L. ^{Fern.}
(7) Rosulate epiphyte on
tree trunk in open tall
forest on sandy soil.
DET. MICKEL & ATEHORTUA 1981

9807. Manilkara ^{Sapotac.}
(15) Tree 11 m. tall x 15 cm.
wood diameter in low forest on
white sand. Latex white.
Buds rusty brown.

MAR 19 1980

9808. Boniarea

Amaryllid.

(1)

Twining vine in open low forest of white sand. Outer tepals abaxially pink with pale green tip, adaxially creamy white. Inner tepals cream at base, yellow green on lamina with brown spots.

9809. Calliandra sp. aff. C. sessilis Benth. Legum.

(6)

Nearly prostrate shrub near margin of low forest on white sand. Filaments white, deep pink toward apex. det. R. Barneby 1981.

9810. Arrabidaea florida DC.

Bignon

(13)

Sprawling vine on open bare roadside. Corolla pure white, very fragrant. det. A. Gentry 1981.

9811.

(11)

Bryophyte

On fallen tree trunk in low forest on white sand.

MAR 20 1980

Collectors: T. Plowman, N. A. Rosa,
and C. S. Rosario.

BRAZIL: Estado Pará. Município de
Tucuruí. Forest remnant,
23 km south of Tucuruí Dam
Site along BR 422.

Alt. 100 - 230 m. Yellowish clay soil.

20 March 1980.

C. 3° 52' S, 49° 44' W.

9812. Lycopodium Lycopodiaceae.
(2) Epiphytic on living tree
trunk in high forest.

9813. Maranta Marantaceae.
(7) Herb 0.3 m (in sun) to 1 m.
tall (in shade) growing in secondary
forest on hillside. Leaves dark
green above with distinct sheen.
and silvery pale green stripe at
midrib, purplish to pale green be-
neath, dull; pulvinus dark purple
brown. Calyx and corolla pale
cream, hyaline. Petaloid staminate
white. Callose staminate yellow,
purple at apex. Cucullate sta-
minate yellow. Fruits pale
green, turning dark brown
with age. Inflorescence initially
erect, reflexing to ground in
fruit.
- 1 seed → HL
Lwe: Lyon

(K. Schum.) Vischer

9814. Quararibea echrocalyx Bombacac.
 (12) Tree 6 m tall in understory
 wood of high forest. Trunk 8 cm.
 diameter. Pedicel and calyx
 deep tawny yellow. Petals and
 androecium creamy white.
 Stigma yellow. Det. B. Alverson 1985.

Arac.

9815. Heteropsis

live: SEL

- (1) Tough climbing vine with pendulous
 spreading lateral branches,
 to 6 m. tall. Growing on
 tree trunks in high forest.
 Fruits dull pale orange.
 Seeds black, 1 per fruit.

9816. Astronium lecointei Ducke Anacard.

- (9) Tree in high forest.
 Specimens collected from ground
 after logging. Buds yellow
 green. Det. J. D. Mitchell 1985.

Legum.

9817. Hymenaea sp.

- (11) Large forest tree 25 m tall.
 light brown. Specimens collected
 from fallen branch of tree
 logging.

MAR 20 1980

9818. Orchidaceae
(1) Epiphytic on living tree trunk
in high forest. Perianth light
red-violet.

9819. Guarea silvatica C. DC. Meliaceae.
(2) Tree 4 m x 7 cm diameter.
in understory of high forest
Fruits green. det. Pennington 1982.

9820. Psychotria brachybotrya M. Arg. Rubiaceae.
(3) Shrub 1 m tall in forest
margin along logging road.
Fruits green. det. Kirkbride 1981.

9821. Guarea silvatica C. DC. Meliaceae.
(10) Tree 13 m x 15 cm diameter.
Fruits brown at maturity.
Seeds bright red-orange.
det. T.D. Pennington 1982.
foto
(A) → K

9822. Davilla Dilleniaceae.
(1) Climbing woody vine in
margin of high forest along logging
road. Fruits green.

MAR 20 1980

9823. Heisteria scandens Ducke. Olacac.

(9) Tree in high forest. Specimens collected from fallen branch after logging. Petiole cream. Berry yellow. det. H. Sleumer 1981.

9824. Dodecastigma cf. amazonicum ^{Ducke} Euphorb.

(11) Tree in high forest. Specimens collected from large fallen branch after logging. Latex cloudy, turning red-orange on exposure. Flower buds green. det. M. J. Haft 1984.

9825. Polypodium ^{var. burchellii} polypodioides L. Polypodiaceae

(2) Creeping fern on living tree branch in high forest. det. Michel & Atchordua 1981.

9826. Gurania bignoniacea (P. & E.) Cogn. Cucurbit.

(2) Herbaceous vine 2 m. long in thicket along logging road in forest. Ovary tube orange. Petals yellow. det. C. Jeffrey 1982.

9826A. Philodendron

(2) Epiphyte on tree trunks.
(= 9911)
live only
AL, SEL

9827.

Annonac.

(11)

WOOD

Tree 10 m. tall x 8 cm.
diameter in understory of
high forest. Flowers cream.
Fruits subglobose, 3 cm. diameter,
yellowish green.

9828. Passiflora

Passifl

(1)

Vine 3 m. long in thicket
along logging road in high
forest. Fruit lemon yellow

9829. Heteropsis

Arecace

(1)

Tough climbing vine 6 m. tall
on tree trunk in high forest.
Branches spreading pendulous.
Immature infructescence:
green.

9830. Pennisetum setosum (Sw.) L. Rich. Gram.

(11)

Growing in clump in
newly cleared field at forest
edge. Spikes deep red-purple.
det. Davidse 1980.

MAR 20 1980

9831. Trichilia micrantha Benth. Meliaceae

(12) Tree 8 m. x 15 cm. diameter
wood in understory of high forest.
Fruits pale yellow. Ail. bright
red. Seeds dark brown.

det. T. D. Pennington 1982.

det. S. Mori 1985

→ Eschweilera longipes (Poiteau) ^{MORI} Mori + Prance comb. nov. ined.

9832. Eschweilera zabucaya (Aubl.) Lecythid.

(15) Tree 10 m. tall x 12 cm
diameter in understory of
high forest on hillside.
Petals pale pink. Androeceum
pale yellow. det. Davidse 1981.

(KOERNICKE) SCHUMANN

9833. Monotagima PLURISPICATUM Marant.

(11) Herb growing in small
clumps in understory of high
forest. Leaves shiny grey-
green on both sides. Bracts
pale green. Calyx and corolla
tube white. Petals pale
green. Staminodes white with
purple tip. (= 12057 ex cult.)
DET. H. KENNEDY 1992 (1) → GB

fls

live: Al
Lya

9834. Piper graciliramosum Yunchen Piperac.

(7) Creeping vine on stump in
margin of high forest along
logging road. Leaves bullate,

shiny dark green above, pale
dull green beneath. Spikes
yellowish green. det. R. Callejas 1981.

9835. Morinda triphylla (Ducke) Steyermark Rubiac.
(2) Shrub 1.5 m. tall in
understory of high forest.
Fruits green, immature.
det. Kirkbride 1981.

9836. Lindackeria latifolia Benth. Flacourt.
(15) Tree 13 m. tall x 20 cm.
diameter in understory of
high forest. Fruits pale
green. det. H. Sleumer 1981.
- photo
separate
fruits
wood

9837. Hirtella paraensis Prance Chrysobalanac.
(4) Shrub 2.5 m. tall in under-
story of high forest. Fruit
dark purple black, fleshy.
det. G. T. Prance 1981.

9838. Polypodium phyllitidis L. Polypodiaceae.
(2) Rosulate fern on fallen
tree trunk in high forest.
det. Michel & Atehortua 1981.

9839. Ischnosiphon gracilis (Ruoe) Koenig Merantiaceae.
(6) Sprawling vine in understory of
high forest. Bracts light green.
DET. L. ANDERSSON 1998

MAR 20 1980

det. V. Rudd 1986

cf. Pterocarpus santaloides DC.

9840 cf. Dalbergia Legum?

(9) Tree 10 m. tall x 12 cm.
diameter in understory
of high forest on hillside.
Flower buds brownish.

9841. Fern

(1) Terrestrial fern in high
forest.

9842 PHARUS VIRESCENS DOELL Gram.
(DET. G. DAVIDSE, 1980)

(13) Growing in high primary
forest in large clumps.
Stems decumbent, rooting
off the ground by "prop" roots
at the nodes.

9843. Miconia CERAMICARPA (DC.) COGN. Melastom.

(10) Shrub 1.5 m. tall in
margin of high forest along
logging road. Flowers creamy
white. Inflorescence axis
carmine red. Immature fruits
salmon pink, turning pale
bluish white at maturity.

(DET. J. J. WURDACK 1981)

Seed-Al
PTBG

9844 Ichnanthus breviscobs Doell Gram.

(5) Coarse grass to 3 m. tall forming large stands in open thicket along logging road in high forest. det. Davidse 1981.

9845. Piper arboreum Aubl. var. arboreum Piperac.

(7) Treelet 3 m. tall in understory of high forest. Spikes white. det. R. Collegezo 1986

9846. Quararibea ochrocalyx (K. Schum.) Vischer Bombacac.

(7) Tree 11 m. tall x 10 cm. diameter in understory of high forest. Pedicel and calyx tawny yellow. Petals and androecium white. Fruit yellow. det. B. Alverson 1985.

9847. Compsonoura Myristic.

(11) Treelet 4.5 m. tall in understory of high forest. Flower buds green.

9847A. Olmedioperebea? Morac.

label made! (1) Tree with disarticulating branches. Branch base only

(F)

MAR 20 1980

9848. Tapura amazonica P. & E. Dichapetalaceae
(11) Tree 18 m. tall x 25 cm
diameter in high forest
on hillside. Calyx mustard
yellow. Petals white, turning
yellow-orange with age.
Immature fruits yellowish
green det. G.T. Prance 1981.

9849. PARMOTREMA ZOLLINGERI (HEPP) HALE Lichen
(7) Growing on living tree
branches in high forest. det. R. Harris
Usnea sp.

9850. Parmotrema zollingeri (Hepp.) Hale Lichen
(2) growing on living tree
branches in high forest.
det. R. Harris 1981.

9851. Fungi
(7) growing on fallen log
in high forest. Spore cups
white

9852. Fungi
(7) growing on fallen log
in high forest. Spore cups
white.

MAR 21 1980

Collectors: T. Plowman, N. A. Rosa
and C. S. Rosario.

BRAZIL: Estado Pará. Município de Tucuruí, 12 km north of Tucuruí on road to Cametá. Alt. 50 m.

21 March 1980. Co. $3^{\circ}36'S$, $49^{\circ}44'W$.

9853. Pseugima frutescens Sapindac.
(2) Shrub 3 m. tall in low forest on white sand.

9854. Bromel.
(1) Epiphyte on tree limb in low forest on white sand. Inflorescence branches corolla red. Fruits black.

9855. Bellucia GROSSULARIOIDES (L.) ^{TRIANA} Melastom.
(8) Tree 5 m. tall in open secondary thicket along road. Petals white. Anthers yellow. Fruits still green.

(DET. J. J. WURDACK 1981)

9856. Dulacia guianensis (Engl.) O. Kuntze Olacac.
(12) Tree 16 m tall x 25 cm in diameter in low forest on white sand. Leaves shiny green above, greyish glaucous, dull beneath. Fruits green.
wood
Det. H. Sleumer 1981

MAR 21 1980

9857. Xylocarpus benthamii Annonac.
(1141-20) Tree to 8 m tall x 8 cm in
diameter in low forest on white
sand. Flowers cauliflorous; perianth
pale yellow or salmon pink.
Fruits dark red at maturity,
aromatic.

9858. Lacunaria Quinac.
(20) Shrub 3 m. tall in low
forest on white sand. Fruits light
greenish tan, subglobose to
1 cm. diameter. Flesh yellow, with
white milky juice. Seeds light
brown.

9859. Psychotria carthagenensis Tzeq.
Mispourea det. Kirkbride 1981. Rubiac.
(13) Understory shrub to 1.5 m.
tall in low forest on white sand.
Leaves coriaceous. Flowers pure white,
fruits still green.

9860. Byrsonima crista Andr. Juss. Malpigh.
(11) Tree 7 m. tall in open road-
side thicket. Pedicel and calyx
glands deep yellow. Petals lemon yellow.
Anthers cream. Fruit still green.

9861.

Myrtac.

(1)

Shrub 1.5 m tall in low forest on white sand. Inflorescence pendulous. Immature fruits light green.

9862. Matayba

Sapindac.

(1)

Erect shrub 2 m tall in margin of low forest on white sand. Flowers cream.

9863. Chamaecrista bahiae (Irwin) Irwin & Bernibegum

(3)

Tree 5 m. tall in open roadside thicket. Petals yellow. det. Bernibegum 1981.

9864 Dichapetalum rugosum (Vahl) Prance

Dichapetal.

(8)

Climbing vine 4 m. high in margin of secondary thicket along road. Indument dark brown. Flowers creamy white.
det. G. T. Prance 1985.

9865. Cissus sicyoides L.

Vitac.

(11)

F

Runk climbing vine in margin of secondary roadside thicket. Petals greenish white. Larger stems semi-succulent. det. J. Kallunki 1981

C. TINCTORIA MARTIUS DET. J. A. LOMBARDI 1993

MAR 21 1980

9866. TRICHOMANES CRISTATUM KAULF. Hymenophyll.
(10) Terrestrial fern in low forest
on white sand. DET. HICKEL + ATEHORTUA 1981

9867. Senna silvestris (Vell.) Irw. + Bernh. Legum.
(11) Treelet 3 m. tall in open
roadside thicket. Calyx yellow
orange. Petals bright yellow.
Anthers pale brown. det. Bernh. 1981.
var. silvestris -

9868. Vanilla Orchidac.
(5) Long climbing vine in under-
story of low forest on white
sand. Young fruits pale green.

9869. Bomarea
(9) Vine in secondary growth
in forest clearing on white
sand. Outer tepals abaxially dull
pink with green tip, adaxially cream.
Inner tepals abaxially greenish
cream, adaxially cream with fine
brown spots. Fruits green.

9870. Apocyn.
(3) Shrub 1.5 m. tall in margin of
low forest on sandy soil / long road.

Latex white. Corolla tube white
 Lobes white, deflexed, yellow
 orange around mouth of tube.

9871. Paspalum MULTICAULE POIR. Gram.
 (10) (DET. G. DAVIDSE, 1980)
 Growing in small clumps on
 open sandy roadside

9872. Erythroxylum tucuruiense Plowman Erythrox.
 (7) Det. T. Plowman, 1984
 Shrub 2 m. tall in understory
 of low forest on white sand. Leaves
 dull dark green above with some-
 what sunken nerves; leaves pale
 glaucous dull green beneath.
 Ripe fruits deep red.

9873. Gesneriac.
 (3) Epiphyte on fallen tree trunk in low
 forest on white sand. Older stems red.
 Calyx pale green, dark red at apex.
 Corolla creamy white in bud. Fruits
 cream.

9874. Erythroxylum tucuruiense Plowman Erythrox
 (9) Shrub 1.8 m. tall in understory
 of low forest on white sand. Fruits
 deep red at maturity. Det. T. Plowman 1984

MAR 21 1980

9875. EUGENIA punicifolia (H.B.K.) DC. Myrtac.
(7) punicifolia det. B. Holst 1988.
Shrub 1.2 m. tall in under
story of low forest on white sand.
Buds, cream. Fruits yellow
turning reddish. (DET. CLAUDRICH, 1981)

9876. XYLOPIA OCHRANTHA MART. Annonac.
(8) Tree 5 m. tall x 5 cm. diam-
eter, in low forest on white
sand. Buds silvery green.
DET. MAAS & VAN SETTEN 1987

9877. Chamaecrista diphylla (Linn.) Greene Legum.
(12) Roadside weed to 80 cm. tall.
Petals yellow. det. R. Barneby 1981.

9878. Erythroxylum ligustrinum DC. Erythrox.
(12) Treelet 4 m. tall with
foto storied branches growing in
margin of low forest on white
sand. Leaves light green dull
above, paler yellowish green
beneath, dull. Branches
storied.

Det. T. Plowman

9879 Anthurium gracile Araceae

(1)

Epiphyte on tree limb in low forest on white sand, housing biting ants. Peduncle and spathe purplish brown. Spadix greenish brown.

9880 Betris simplicifrons Mart. Palmae

(3)

Dwarf palm with weak spindly stem to 1.2 m. tall in understory of low forest on white sand. Fruits green.

det. A. Henderson 1987.

9881. Desmoncus Palmae

(8)

Armed scrambling climber to 2 m. tall in low forest on white sand. Fruits green, turned yellow, then bright red at maturity.



